J L Mc Grail
2618a So Compton
Laclede 3339

KIROMAC DOORS

KIROMAC MANUFACTURING COMPANY
RICHMOND, INDIANA

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General Information Required When Ordering Kalamein Material or Requesting Quotations

OPENINGS	Give number of openings and size of each opening. This means the width and height between wood bucks, brick or tile walls.
DOORS	Select type of door (See illustration). State size of each door if openings are not already made.
FRAMES	Select style of frame or jamb required, advising thickness of finished wall, also width of jamb required.
CASING	State whether casing is wanted on one or both sides of opening. Select style of casing. (See illustration.)
SCRIBE MOULD	Advise whether scribe mould is wanted on one or both sides of opening. Select style of moulding to be used.
SWING OR HAND OF DOORS	This information is very important, and is one of the easiest things to confuse. Where finished hardware is to be fit at the factory, a sketch should be provided showing the swing of each door.
THRESHOLD	Where thresholds are to be used exact detail must be given so that door can be made the correct size.
ASTRAGAL	Doors in pairs should have meeting stiles constructed to conform to the type of hardware which is to be used. Suitable astragal furnished if requested.
HARDWARE	Hardware is not included in quotations except on request, with full information and specifications. Hardware may be fit to doors if delivered to factory with transportation charges paid.
GLASS	Glass is not included in quotations except on request with full information stating kind of glass required. Removable stops are provided for all doors, transoms, side-lights, etc., requiring glass.
FINISH	All Kalamein work is given one prime coat of paint before shipment.

KIROMAC MANUFACTURING COMPANY.

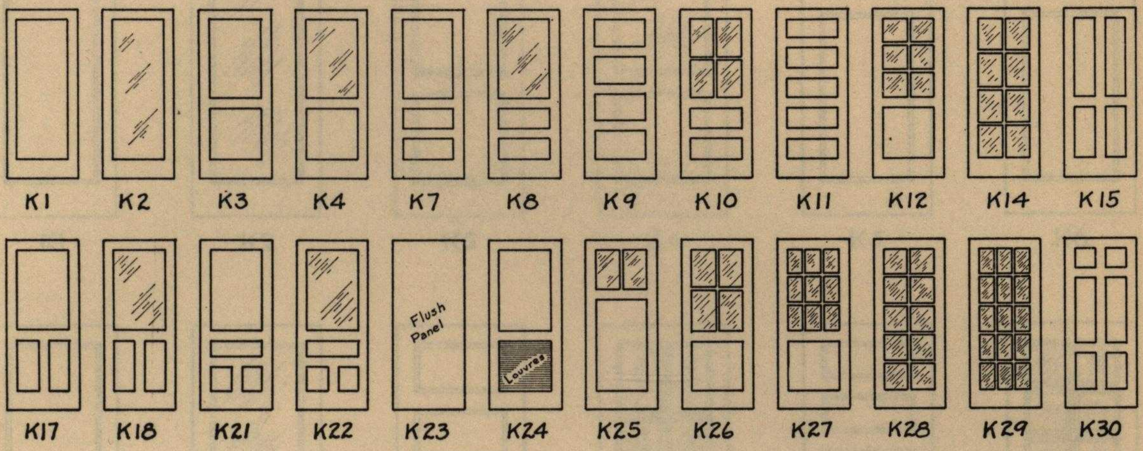
RICHMOND, INDIANA.

Detail and Measurement Sheet for Standard Kalamein Doors.

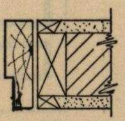
Date ....

Name of Building ....

Location ....



Elevations of Standard Kalamein Doors.



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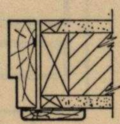

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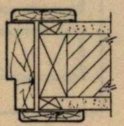

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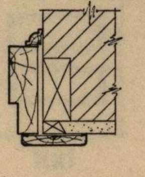

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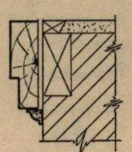

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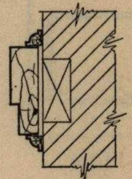

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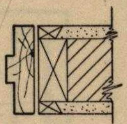

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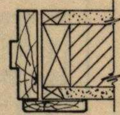

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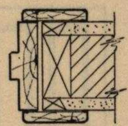

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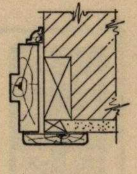

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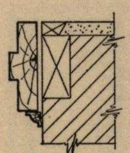

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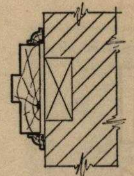

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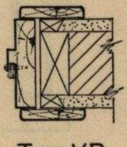

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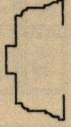

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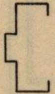

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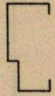

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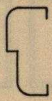

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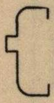

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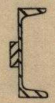

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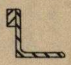
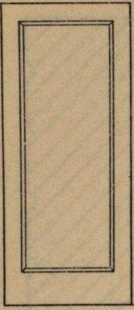


Type S7

Types S1 to S5 are No. 16 Guage Steel Frames and may bear Underwriters Label.

Quan. Reqd.	Door		Masonry Opg. Width Height	Inside Frame Opg. W. Opg. H.	Door Width Height	Frame Data			Casing Reqd.	Br. Mld. Reqd.	Mortice for Hdwe	Swing
	Type	Label				Type	Width	Label				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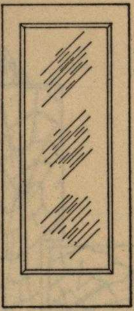
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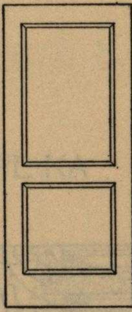
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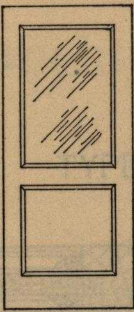
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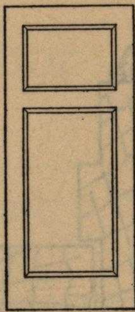
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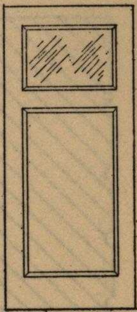
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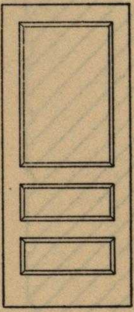
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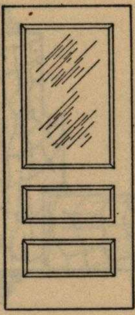
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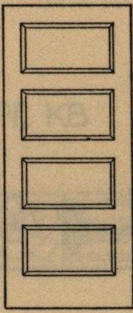
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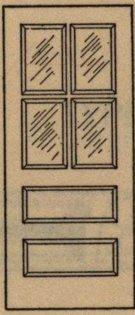
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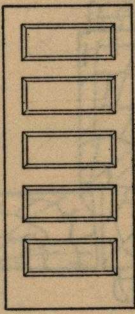
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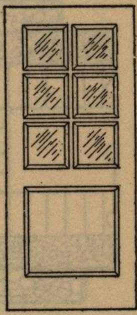
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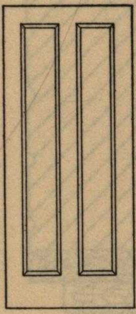
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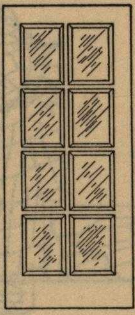
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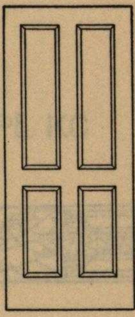
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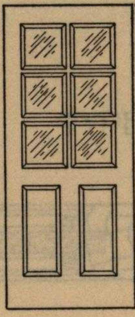
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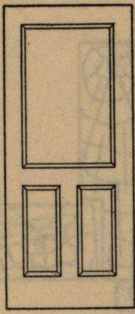
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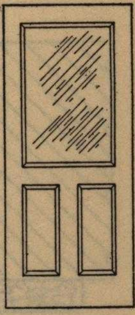
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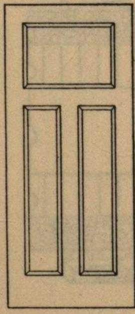
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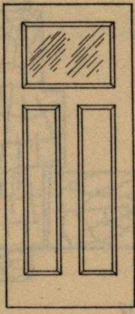
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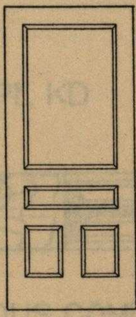
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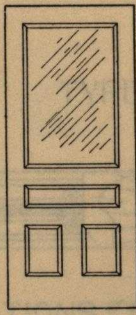
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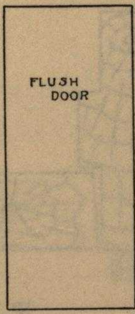

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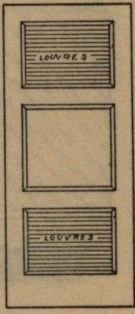
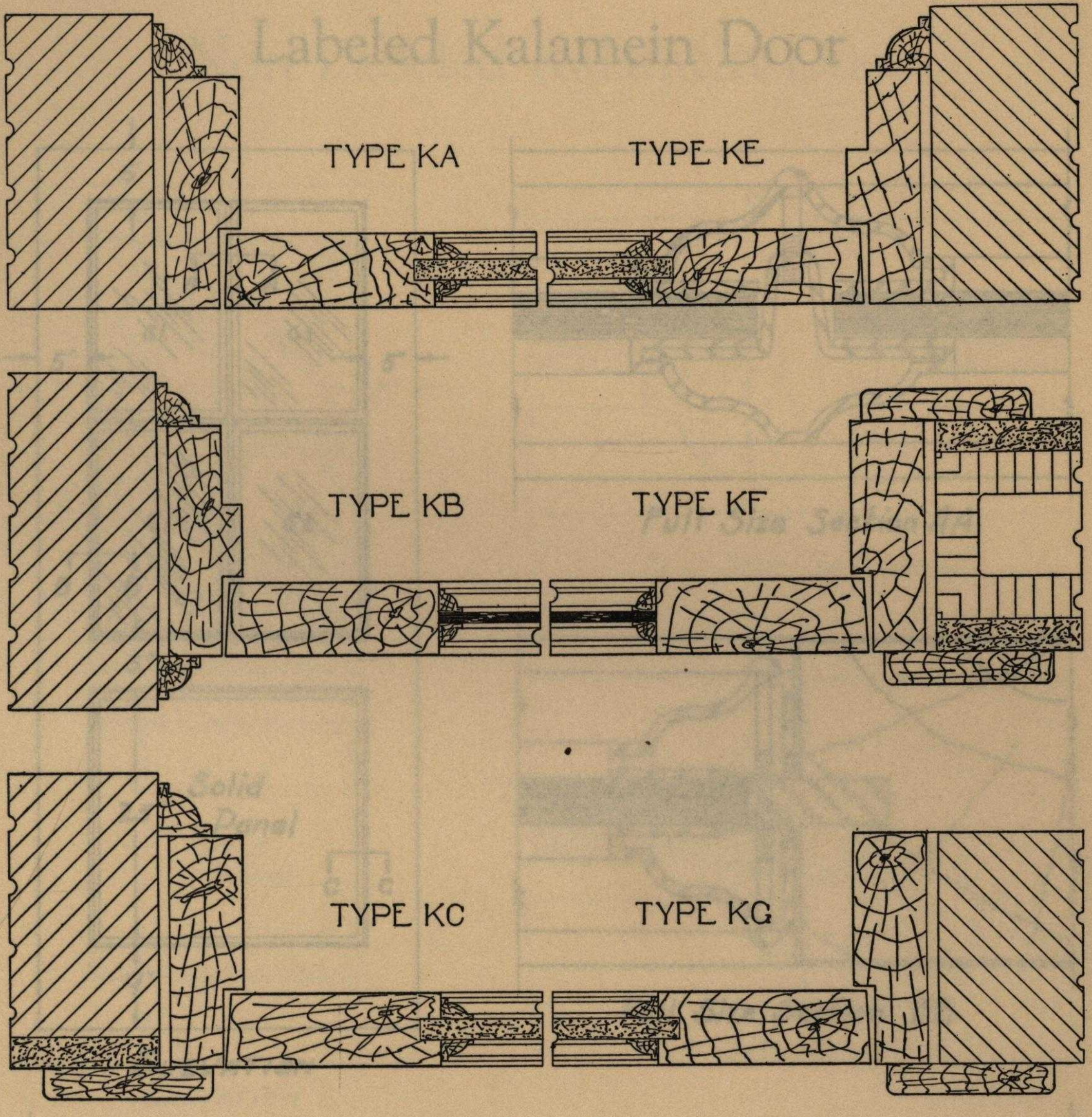


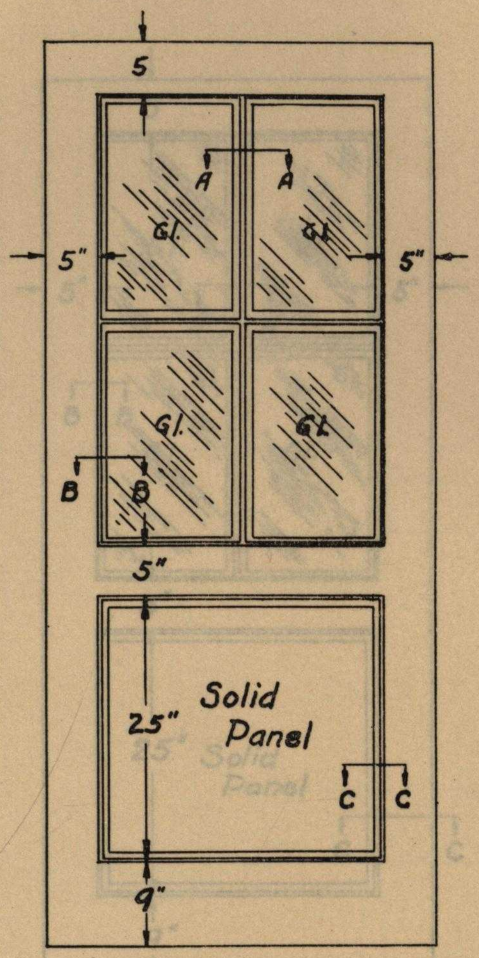
K24

STANDARD TYPES KALAMEIN DOORS

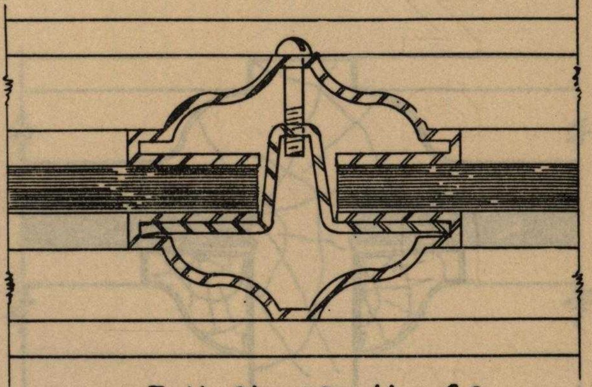


VARIOUS COMBINATIONS FRAMES
CASINGS AND MOLDINGS

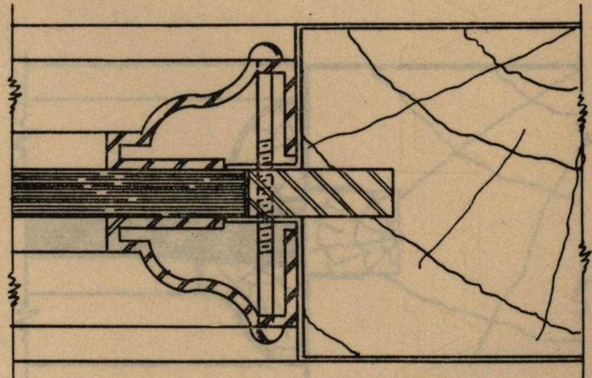
Labeled Kalamein Door



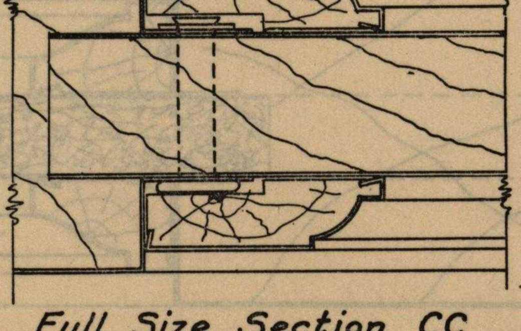
ELEVATION



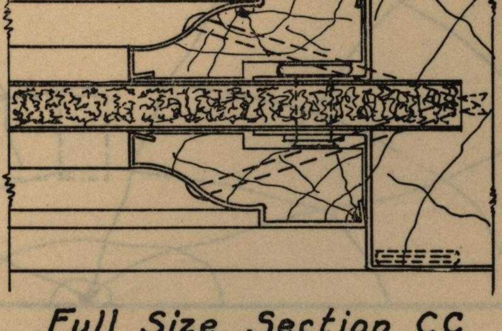
Full Size Section AA



Full Size Section BB

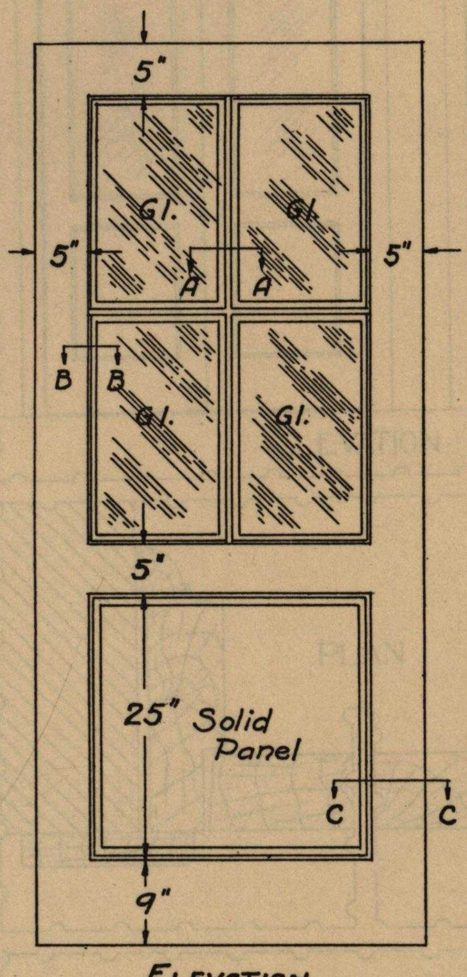


Full Size Section CC
With $\frac{3}{4}$" Wood Panel

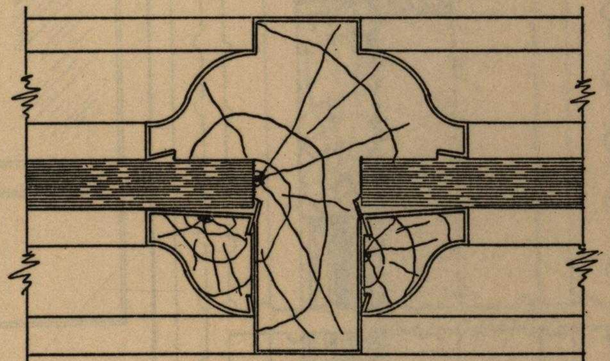


Full Size Section CC
With $\frac{1}{4}$" Asbestos Panel

Non Labeled Kalamein Door



ELEVATION



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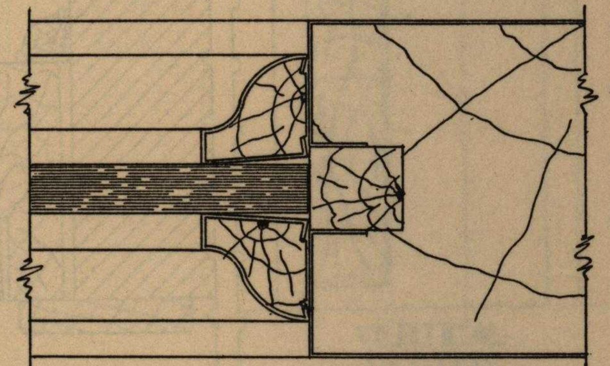

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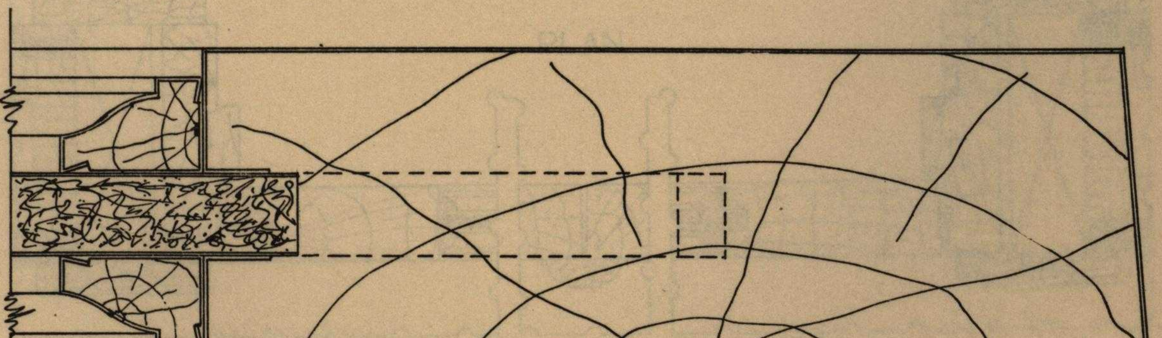

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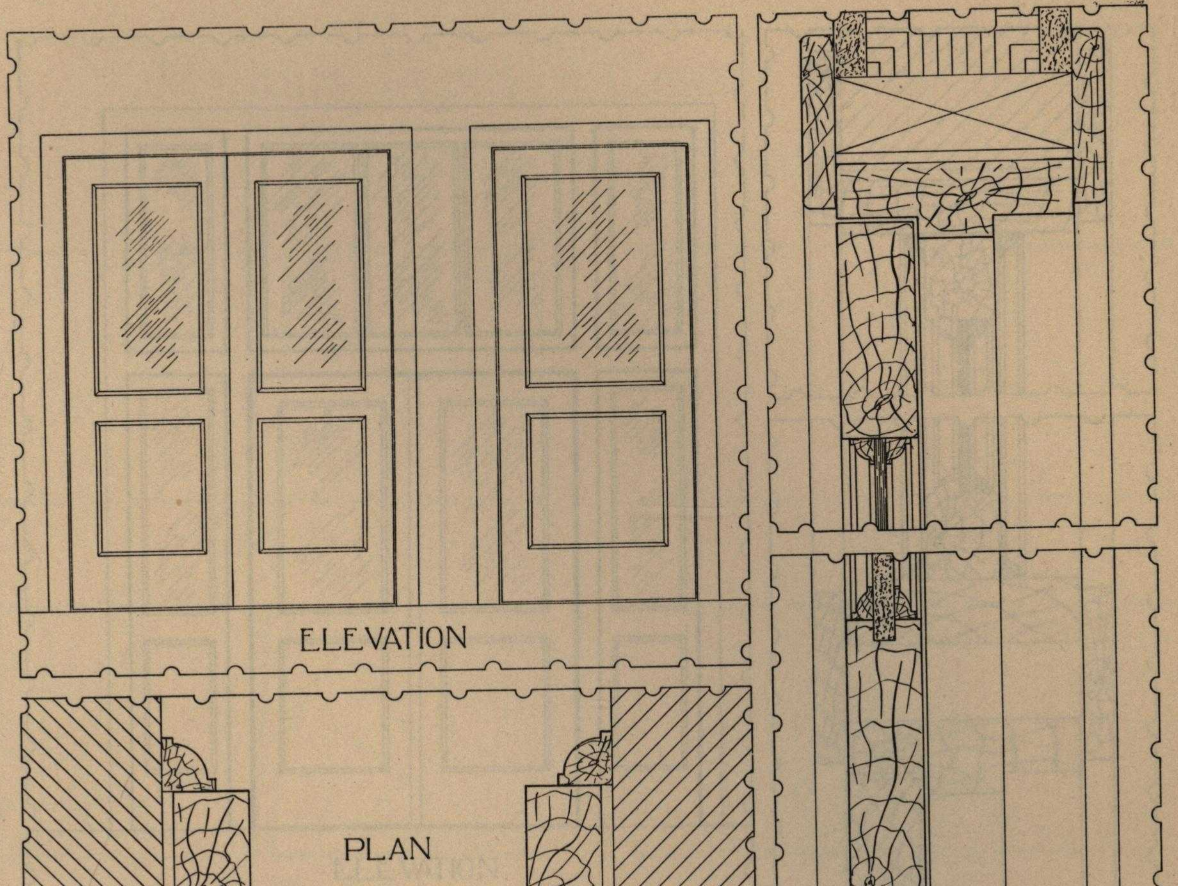
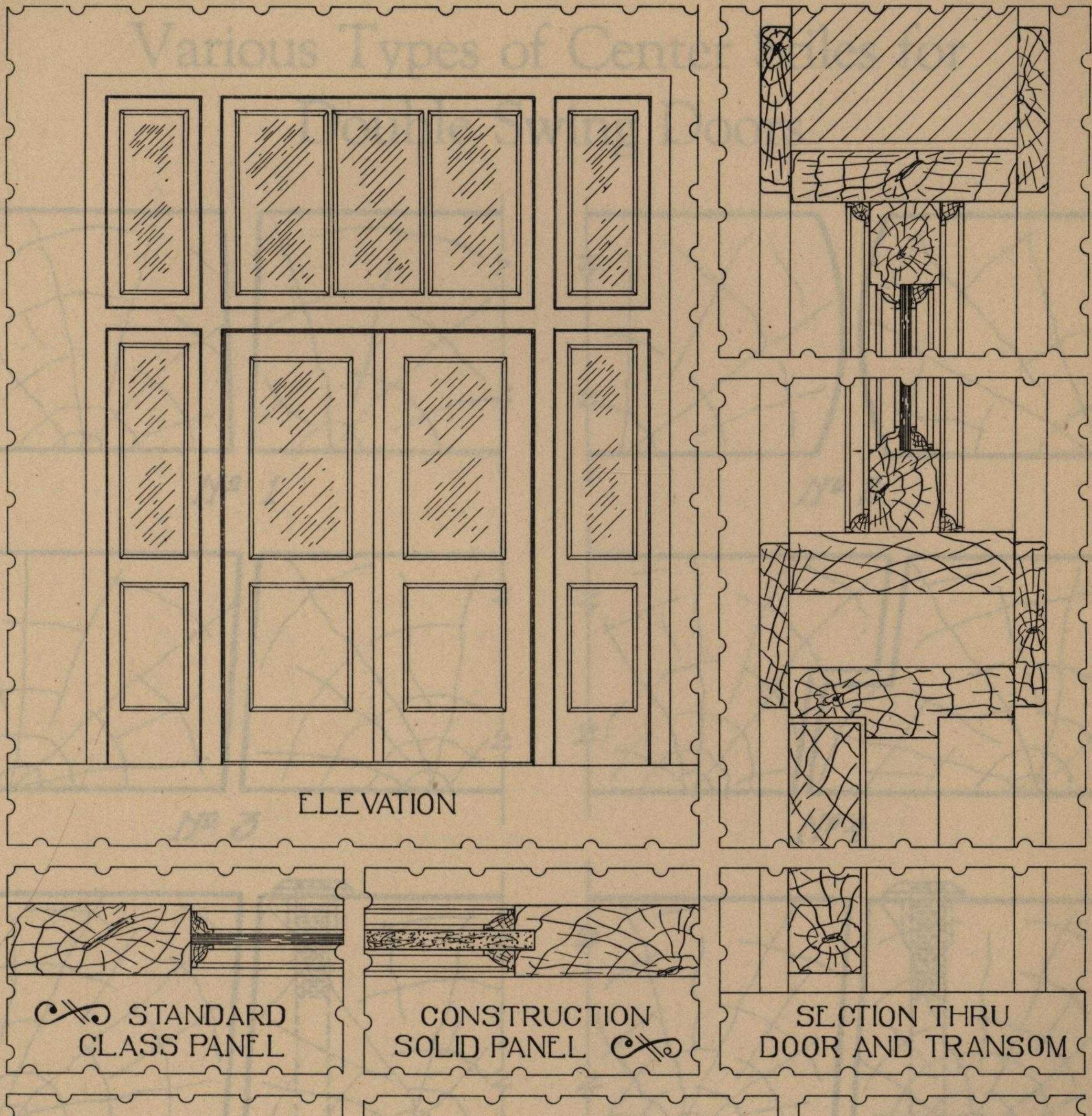
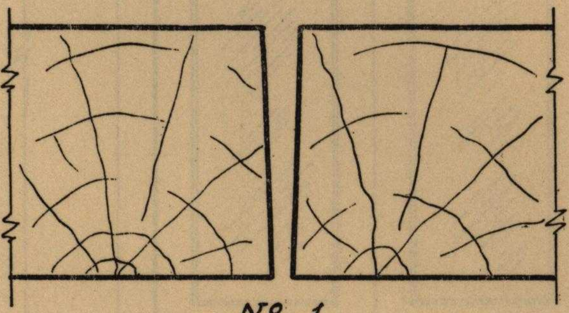


SINGLE AND DOUBLE SWING
DOORS

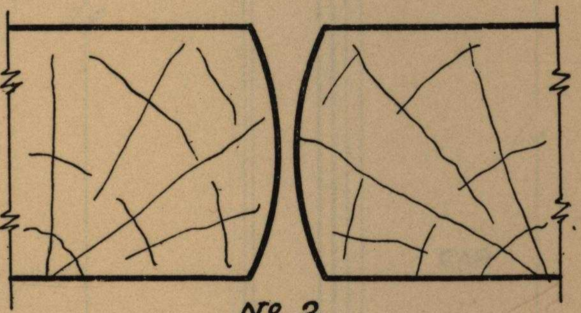


DOUBLE SWING DOORS WITH
SIDELIGHTS AND TRANSOM

Various Types of Center Stiles for Double Swing Doors



Nº 1



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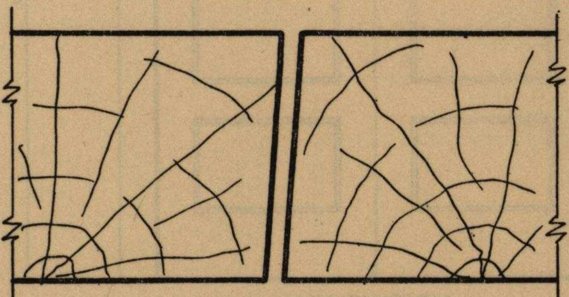

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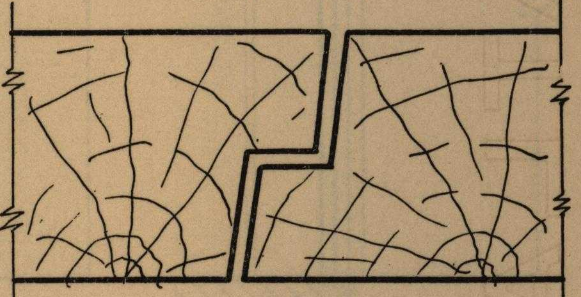

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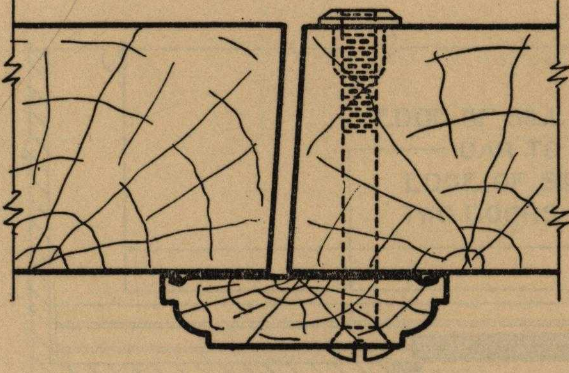

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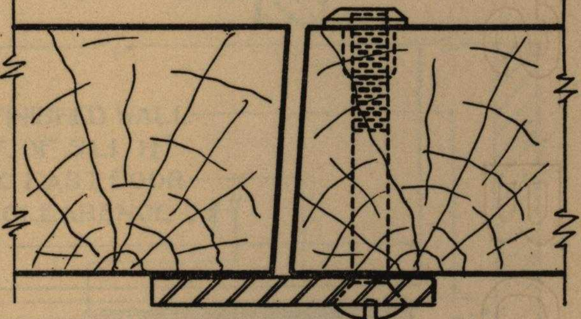
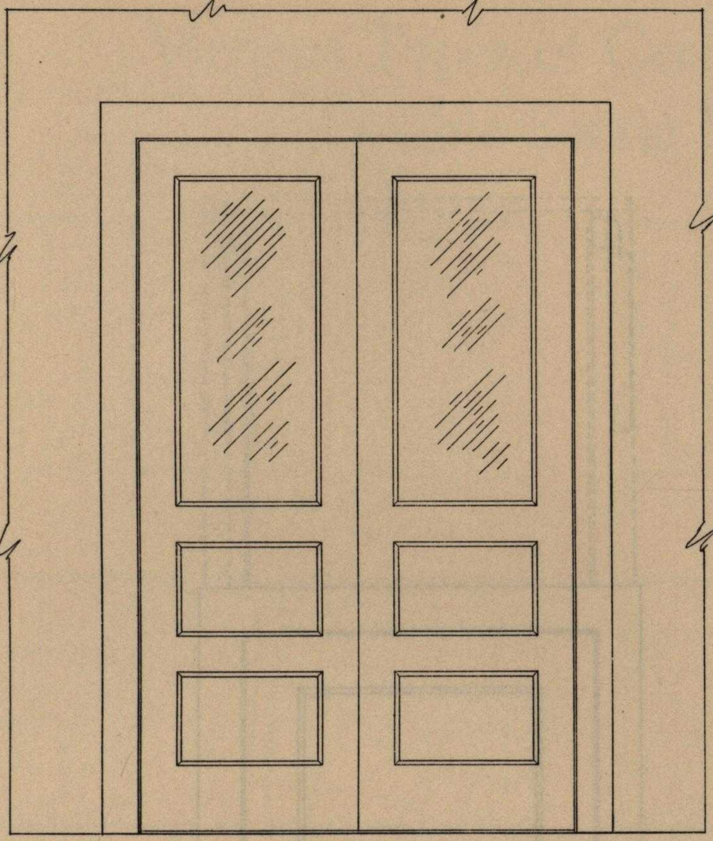


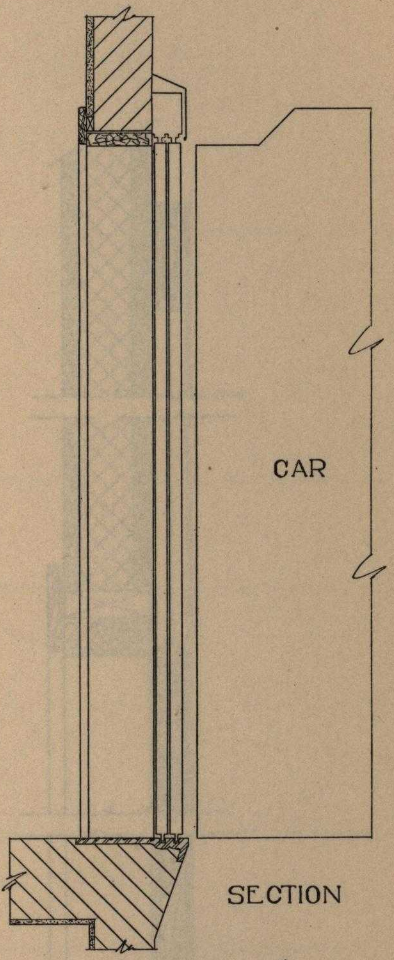
Nº 6

The construction of meeting stile is determined somewhat by the type of hardware to be used.

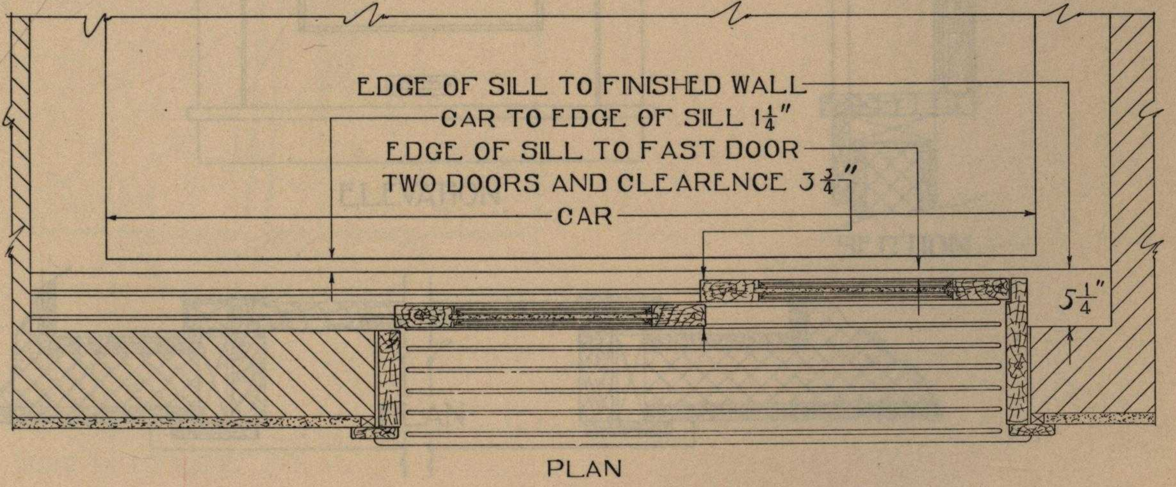
No. 1 is used where both doors are active.
No. 2 is used when doors are double acting.
No. 3 is used when one section is active.
No. 4 This construction used for folding and accordion doors.
No. 5 This type required with astragal when doors bear Underwriters' Label.
No. 6 This type required when doors bear Underwriters' Label Alternate type astragal shown.



ELEVATION
TWO SPEED ELEVATOR DOORS

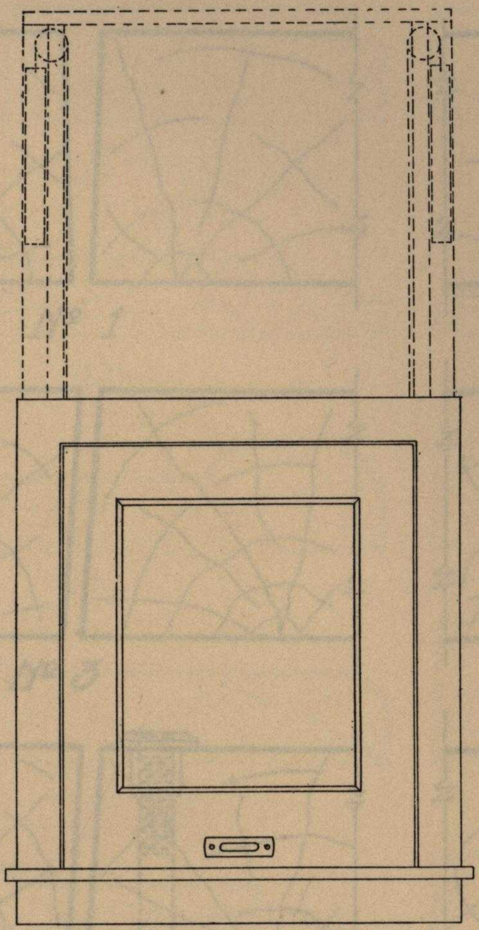


SECTION


EDGE OF SILL TO FINISHED WALL
CAR TO EDGE OF SILL 1¼″
EDGE OF SILL TO FAST DOOR
TWO DOORS AND CLEARENCE 3¾″
CAR
5¼″

PLAN

Kalamein elevator doors can be supplied in all practical combinations, two speed doors here shown are very commonly used. We can furnish doors with frames, trim, cast iron or steel sills and hardware all complete ready to install.



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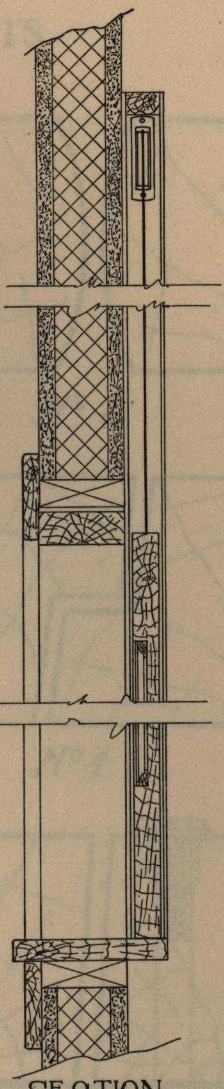

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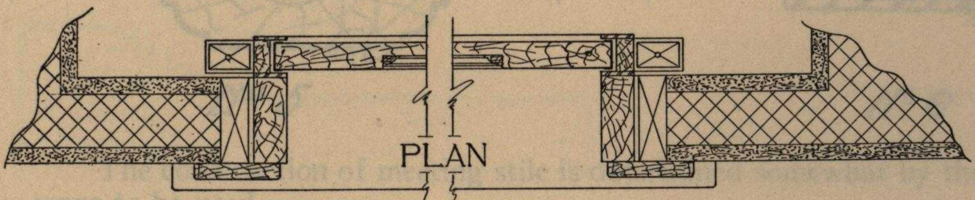
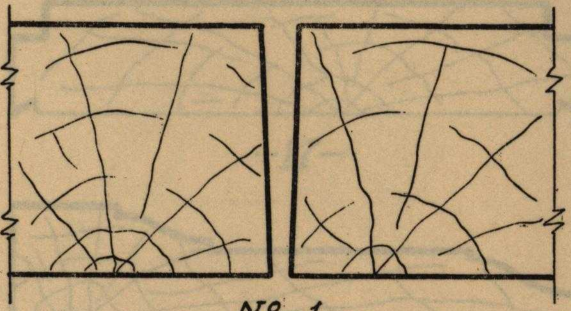


PLAN

Kalamein doors for dumbwaiters and chute openings are being very extensively used. One or two section doors with frames, trim and hardware complete can be furnished. Material supplied knocked down or assembled as desired.

Various Types of Center Stiles for Double Swing Doors



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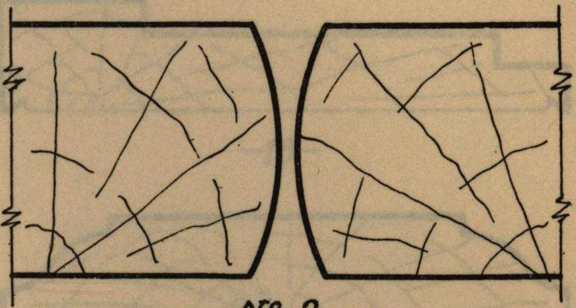

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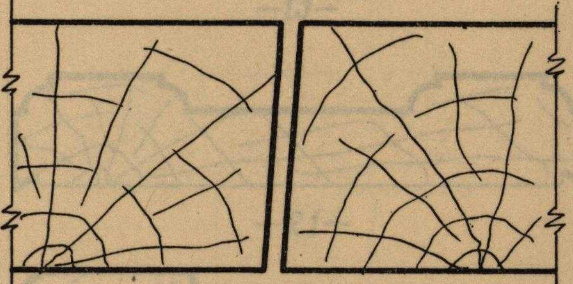

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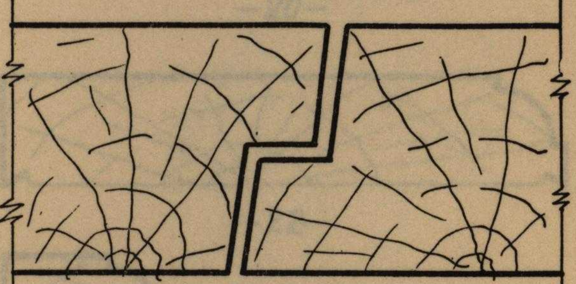

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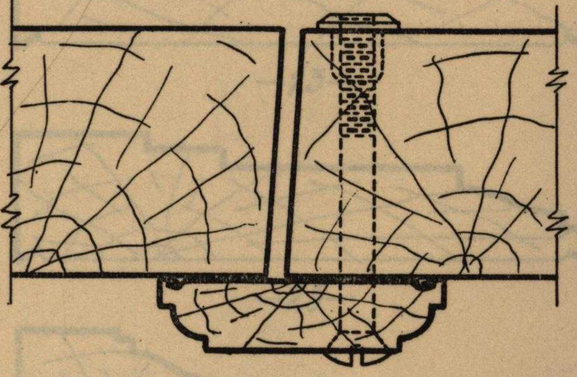

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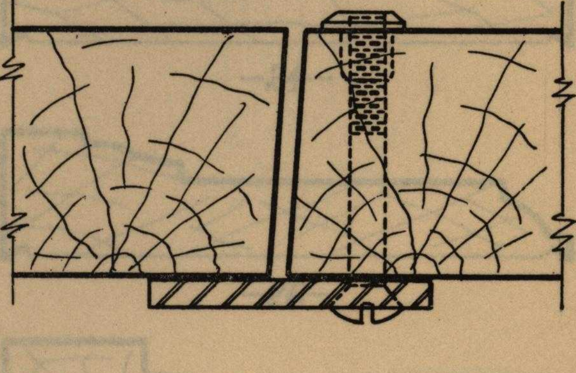
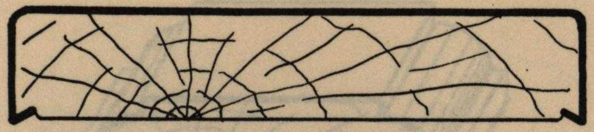


№ 6

The construction of meeting stile is determined somewhat by the type of hardware to be used.

No. 1 is used where both doors are active.
No. 2 is used when doors are double acting.
No. 3 is used when one section is active.
No. 4 This construction used for folding and accordion doors.
No. 5 This type required with astragal when doors bear Underwriters' Label.
No. 6 This type required when doors bear Underwriters' Label Alternate type astragal shown.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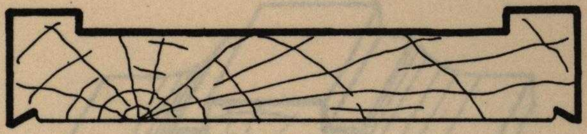
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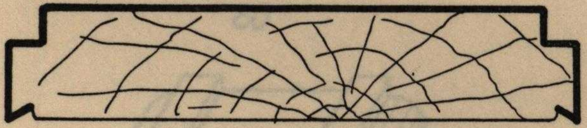
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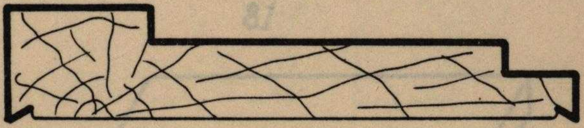
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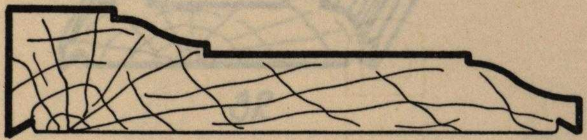
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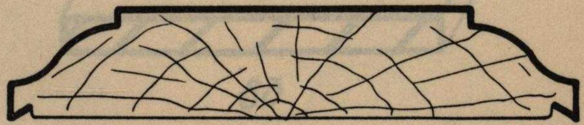
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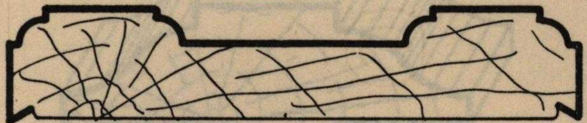
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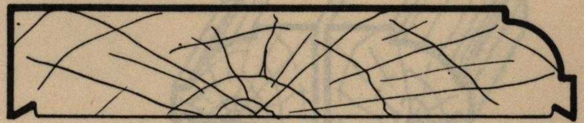
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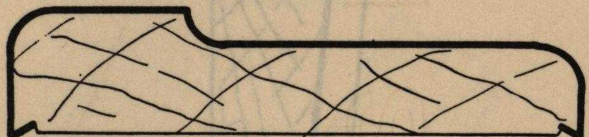
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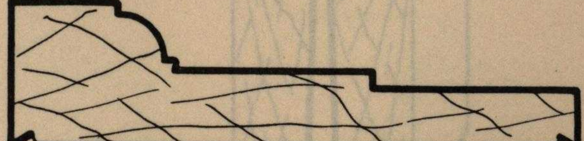
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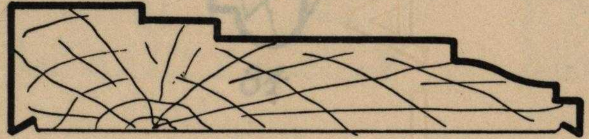
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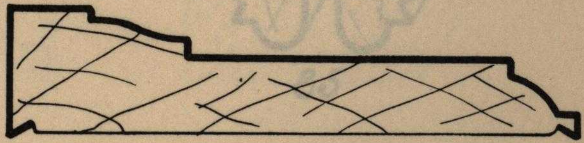
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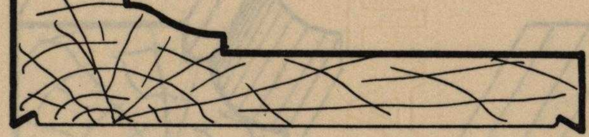
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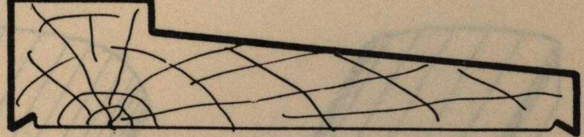
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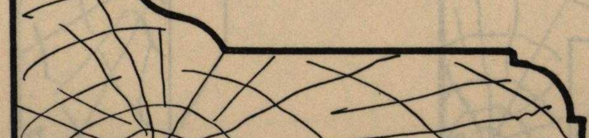
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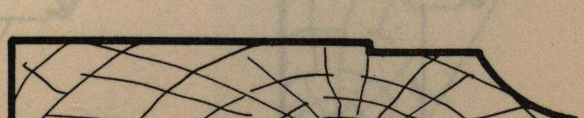
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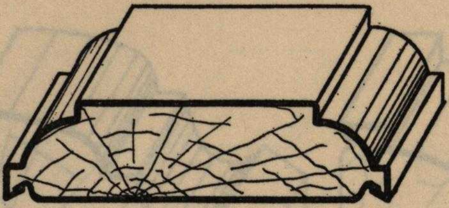

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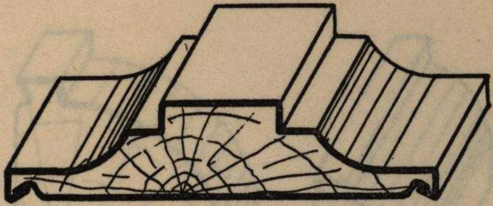

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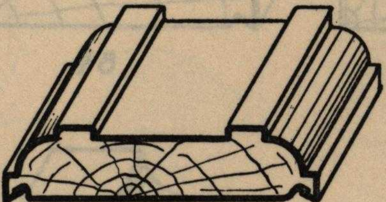

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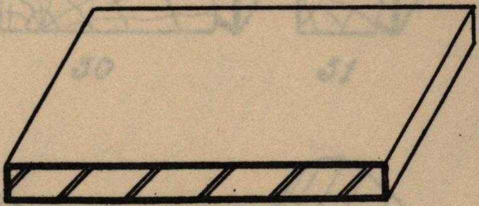

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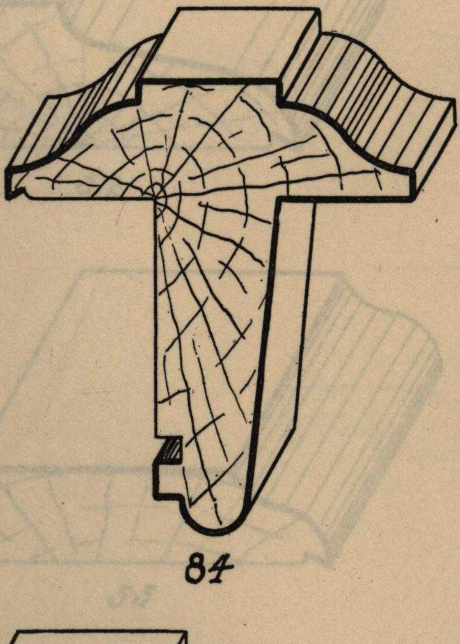

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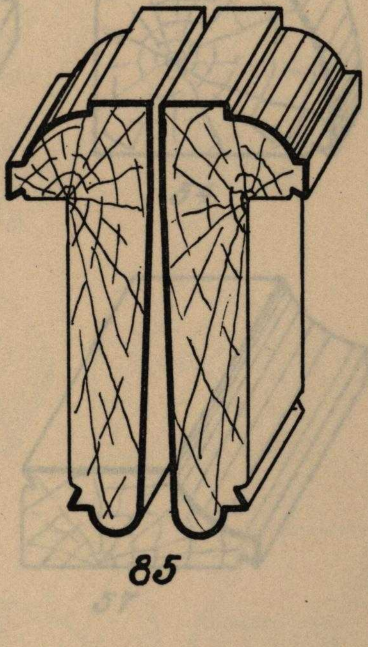

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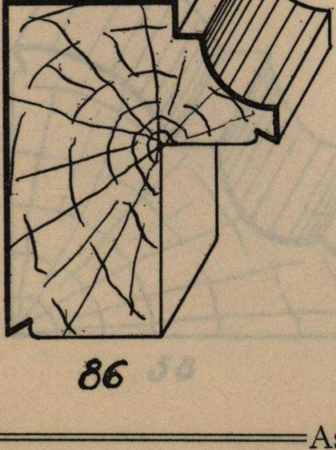

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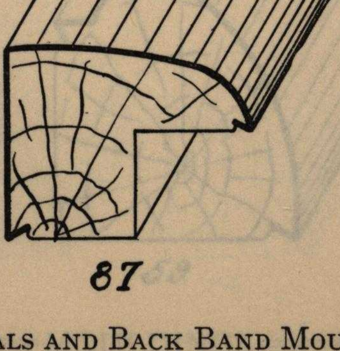

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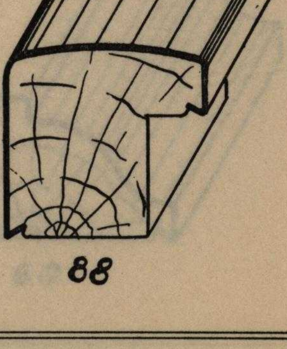

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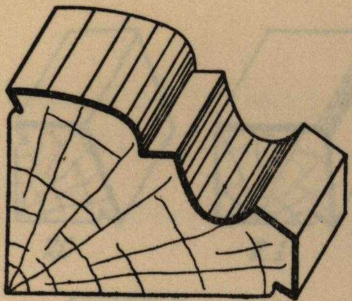
Astragals and Back Band Mouldings



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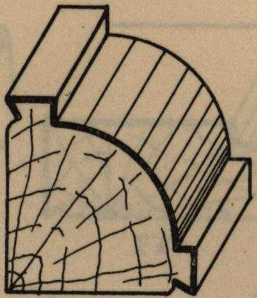

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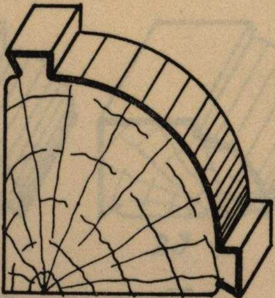

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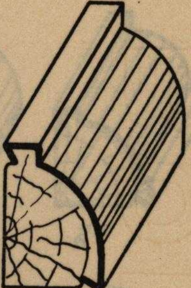

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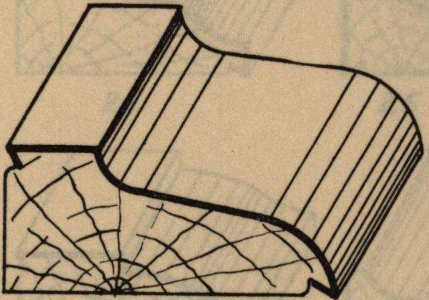

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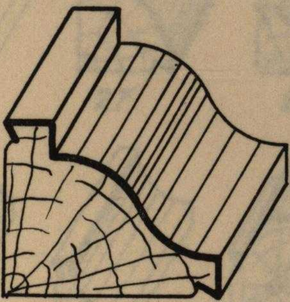

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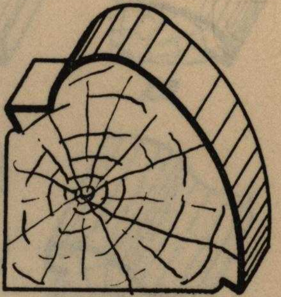

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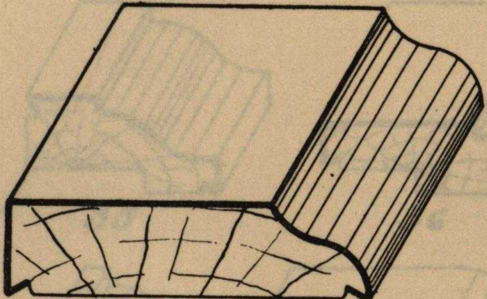

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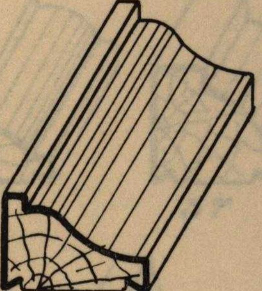

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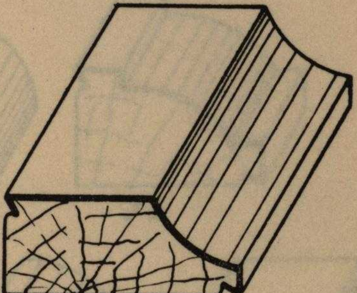

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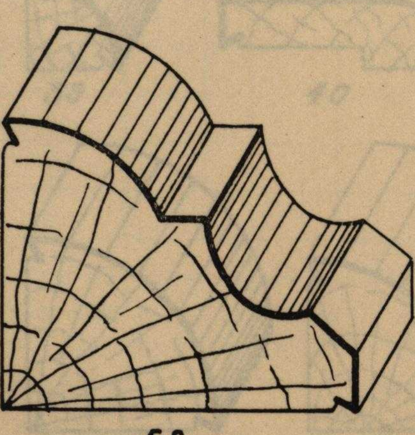

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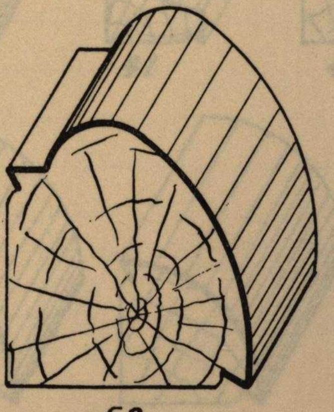

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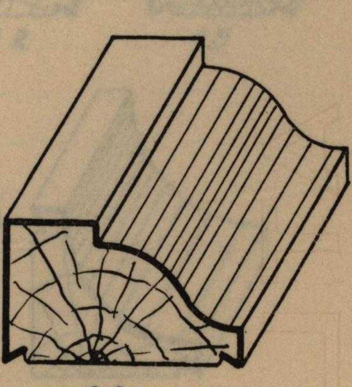

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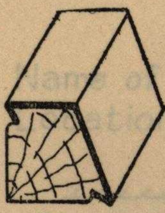
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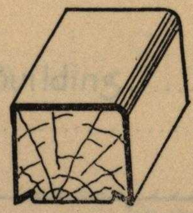
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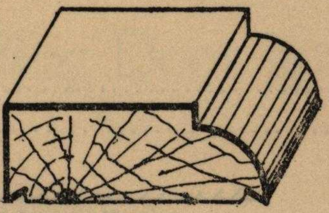
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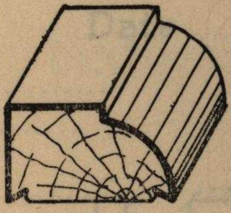
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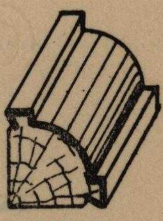
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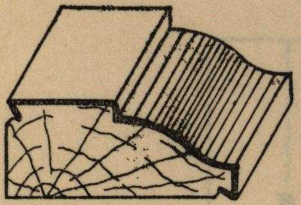
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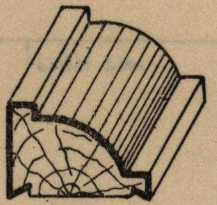
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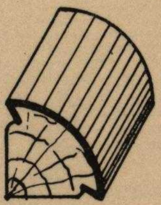
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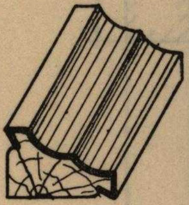
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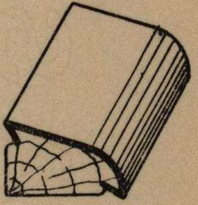
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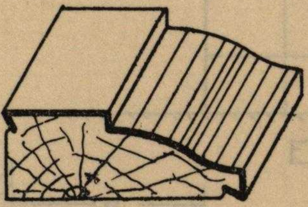
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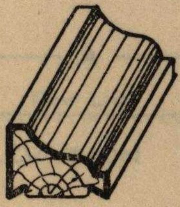
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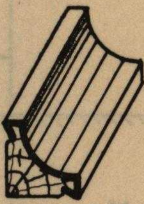
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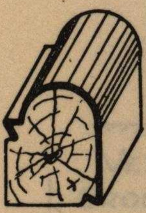
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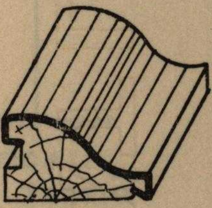
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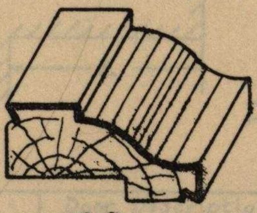
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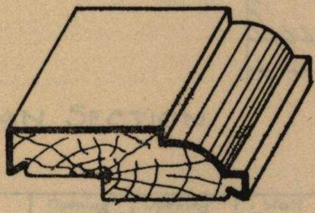
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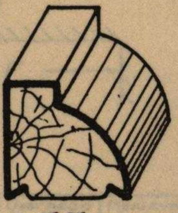
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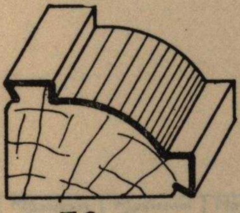
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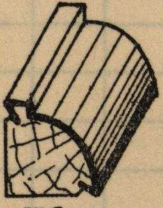
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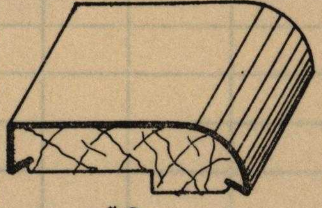
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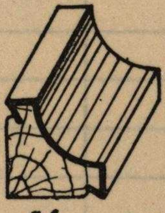
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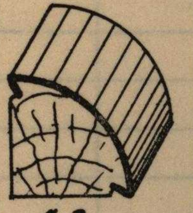
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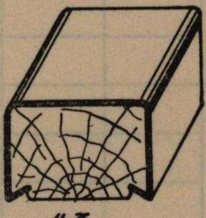
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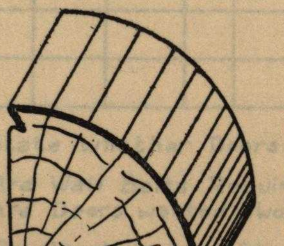
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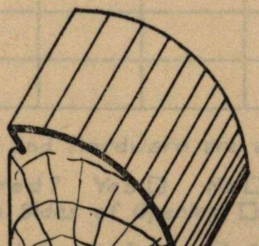
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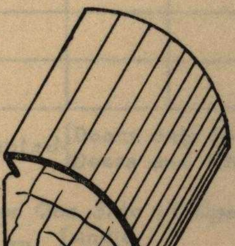
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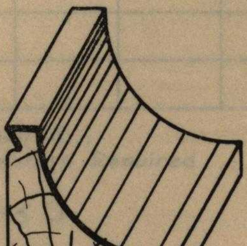

47

MOULDINGS

KIROMAC MANUFACTURING COMPANY

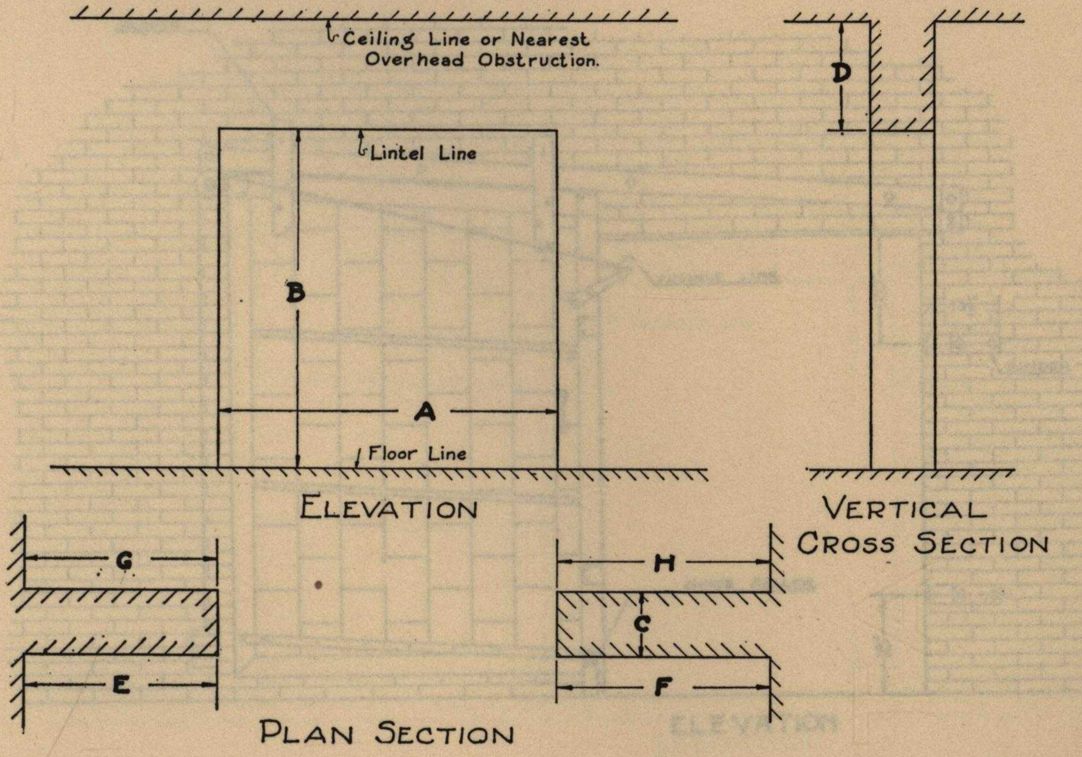
RICHMOND, INDIANA.

Measurement Sheet for Slide and Swing Tin Clad Fire Doors and Hardware.

Date ....

Name of Building ....

Location ....



Quan.	Door Description				Opening Width A	Opening Height B	Wall Thickness C	Overhead Clearance D	Maximum Return E	Maximum Return F	Maximum Return G	Maximum Return H
	Slide	Swing	Ply	Label								

State whether Doors and Hardware are wanted { Doors only Required .. .. .
Doors and Hardware Required ..... .

Are Wall Bolts Required? Yes ☐ No ☐

Are Doors wanted Two Sides of Opening ☐ or One Side of Opening ☐

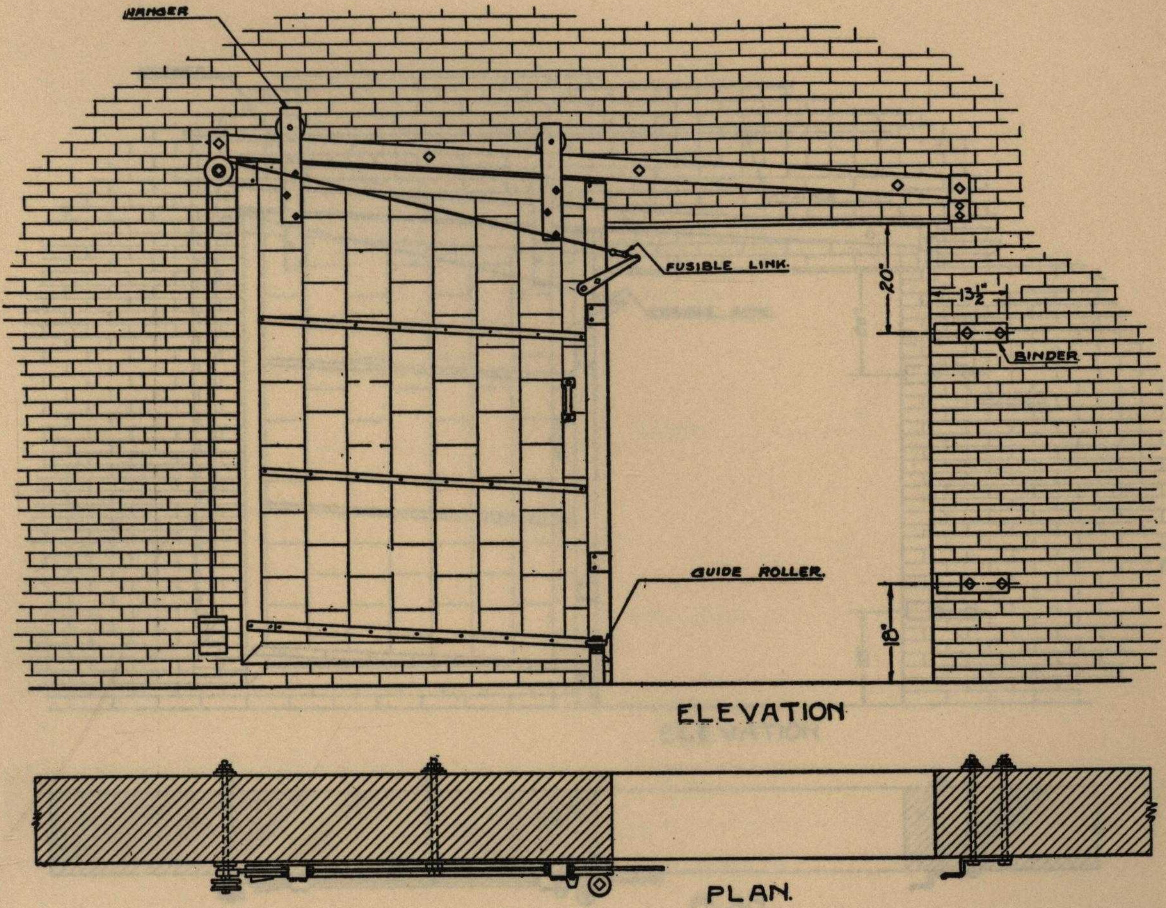
Do Openings have Steel Frames? Yes ☐ No ☐ { Angle . ...
Channel ... .

Are Steel Frames Required? Yes ☐ No ☐ { Angle ....
Channel ....

NOTE. If Opening has Arched Head, "B" dimension should be taken to Crown of Arch.

Single Sliding Door and Fixtures

No. 250

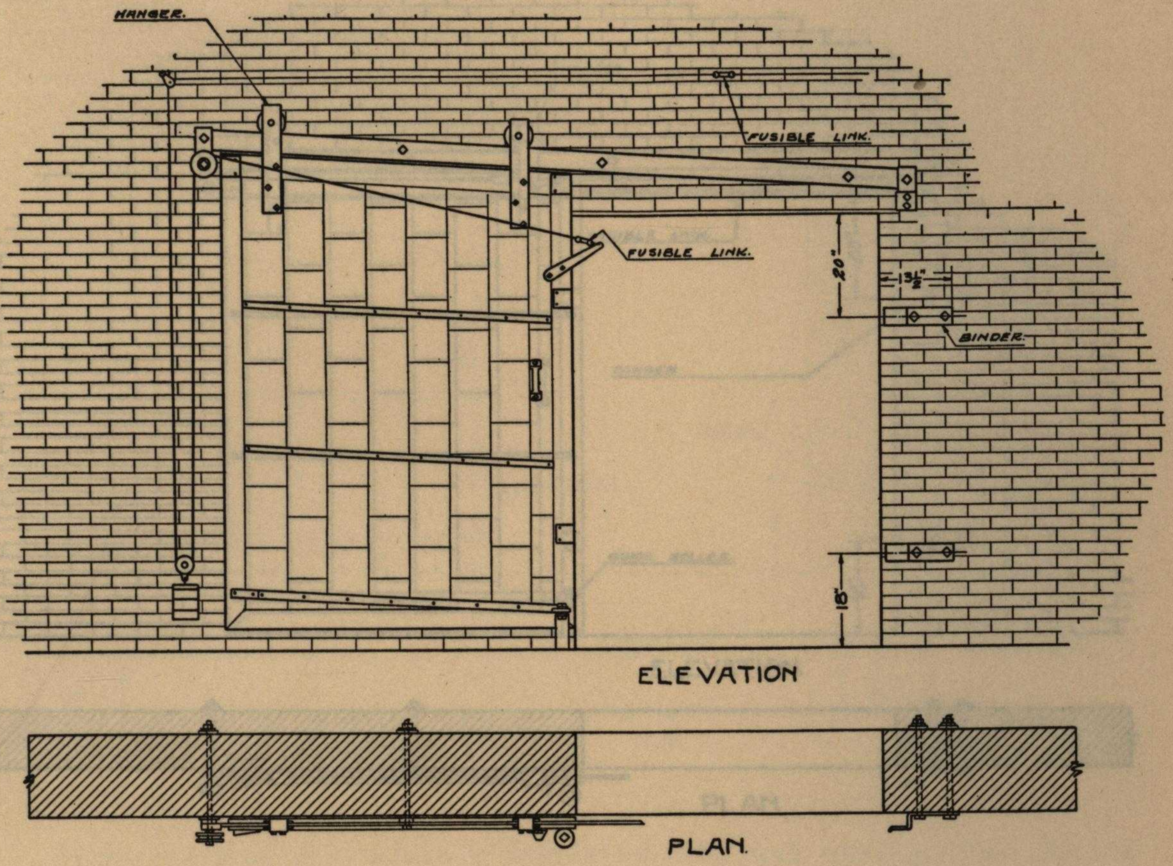


Sliding fire doors are recognized as providing a high degree of protection and are recommended by Insurance Authorities. The door slides on an incline track, and is suitably counter weighted. One fusible link at front edge of door is thus exposed from either side of wall. The melting of the link releases the counter weights mechanism causing the door to close instantly. The automatic closing device may be modified to conform to local and state insurance requirements. The hardware shown is made to comply with the standards of the National Board of Fire Underwriters and is regularly inspected and labeled under the direction of the Underwriters Laboratories Inc.

Doors furnished with hardware complete or if desired doors or hardware sold separately.

Single Sliding Door and Fixtures

No. 254

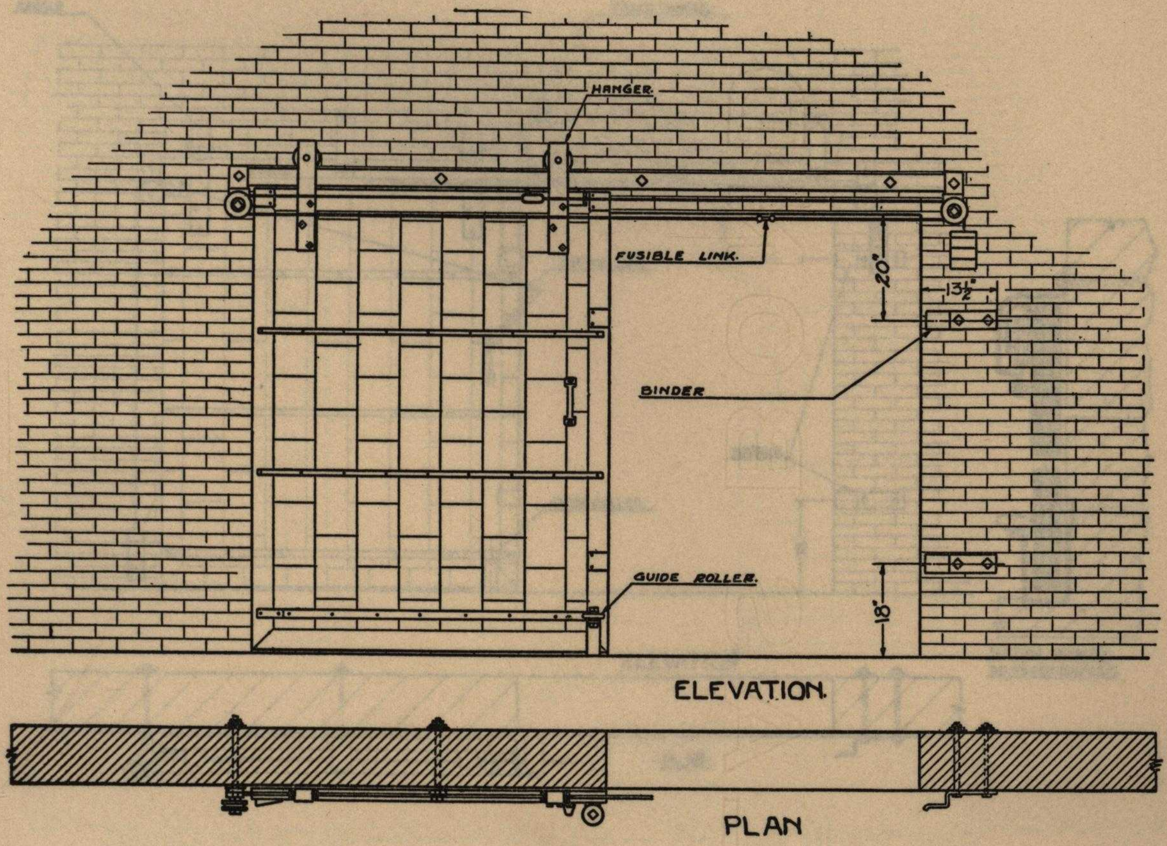


The type of door and hardware here illustrated is similar to the No. 250 fixtures with one fusible link added above the opening and the weight compounded. When either link melts the weight mechanism is released and the door closes. If desired the fusible link cord or wire may be arranged to pass through the wall connecting with the automatic attachment of the door on the opposite side of wall. Since the melting of any one link releases both automatics and causes both doors to close the advantages of this equipment are immediately apparent.

Doors furnished with hardware complete or if desired either doors or hardware sold separately.

Single Sliding Door and Fixtures

No. 256

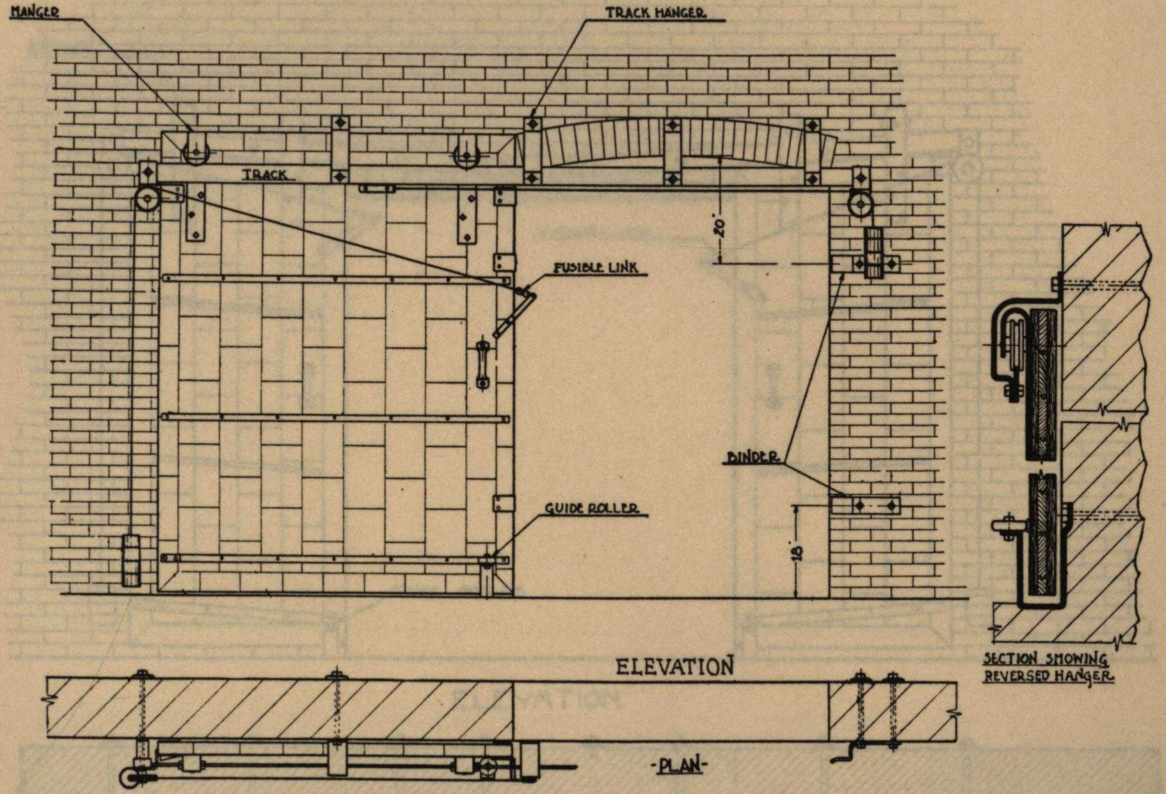


It is not always possible to operate a sliding fire door on an incline track, where sufficient overhead space is not available we recommend the arrangement herewith illustrated. To properly install our No. 256 equipment a clear overhead space of 13½ inches should be available. This allows the door to lap the lintel the usual 4 inches and provides for track and roller hangers of standard construction. The door may be opened and closed independently of the automatic closing device which functions only when the fusible link melts. The weight shown suspended at right hand side of opening is connected with the door by means of a chain, repair link and angle. When the fusible link melts the weight drops, thereby closing the door.

Doors furnished with complete hardware or if desired either door or hardware sold separately.

Single Sliding Door and Fixtures

No. 262

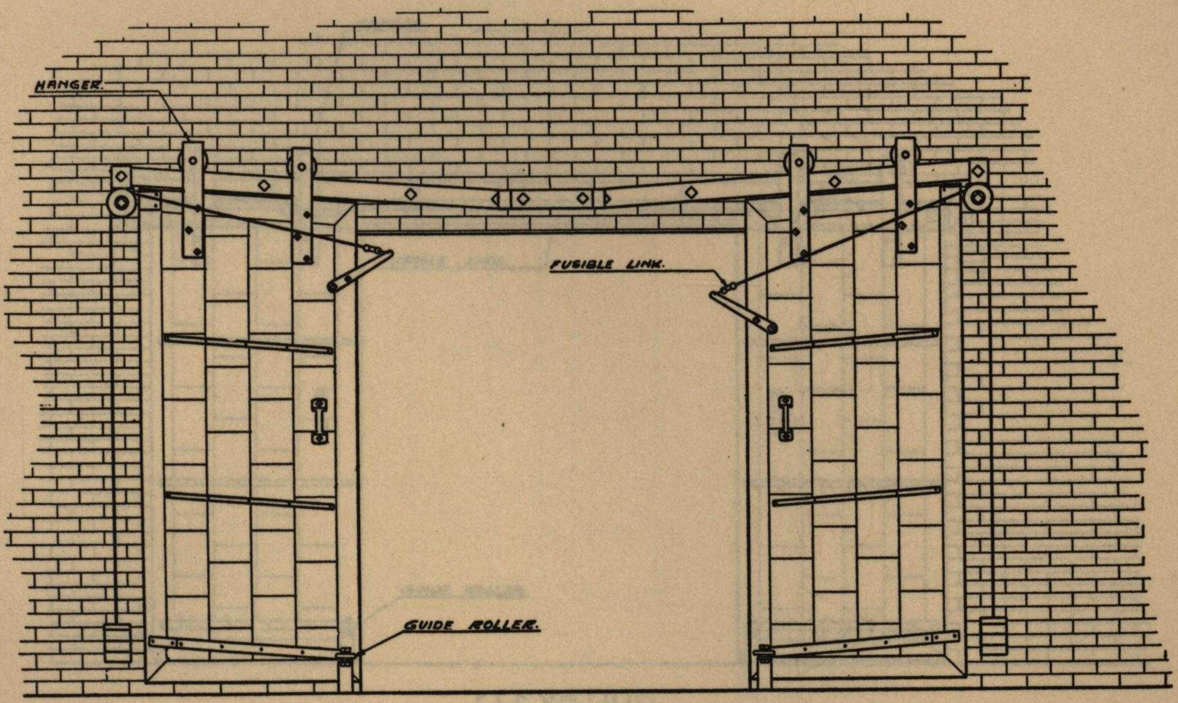


When overhead obstruction or insufficient clear wall space prevents the use of incline or ordinary level track equipment, the arrangement here shown is recommended. With this equipment the track is supported by special steel brackets with the hangers reversed. With the door lapping the lintel the usual four inches this device can be installed with a minimum of 6½" of overhead clearance above lintel. One fusible link at edge of door is used with two compensating weights, one of which is connected with door by means of a heavy chain and angle; the other weight automatically releases when fuse link melts. The hardware shown is of approved construction, inspected and labeled under the direction of the Underwriters' Laboratories Inc.

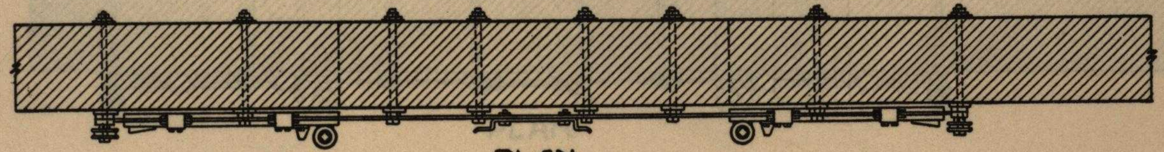
Doors furnished with hardware complete or if desired doors or hardware sold separately.

Double Sliding Doors and Fixtures

No. 258



ELEVATION.



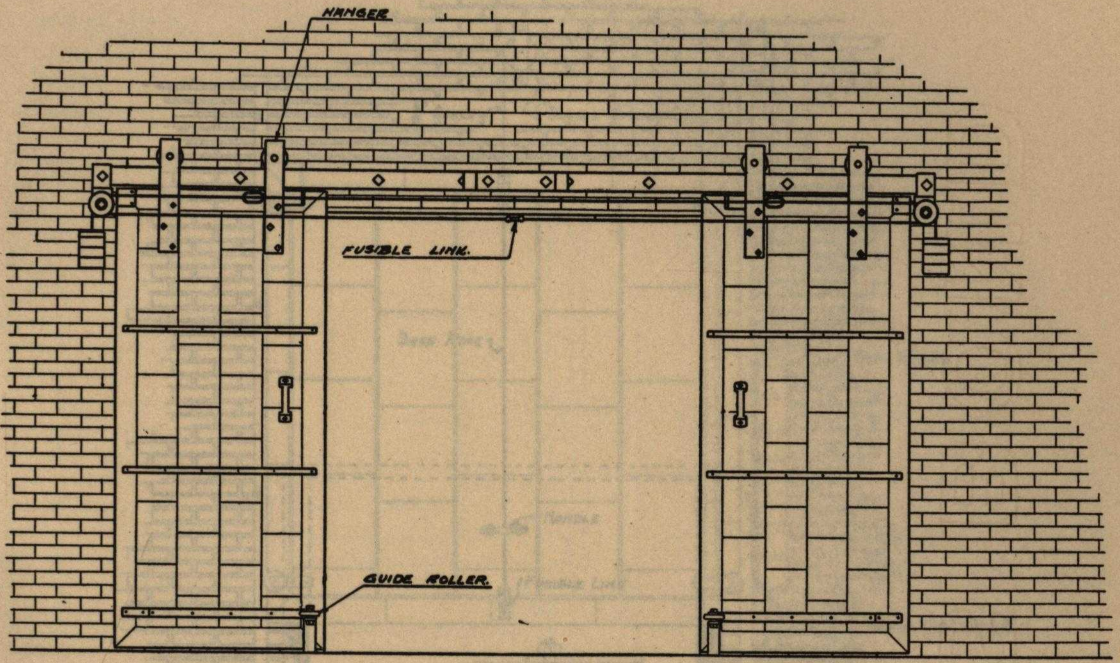
PLAN

Double sliding doors herewith illustrated are the combination of two No. 250 door with a double binder and stop attached to track above center of opening. Also an astragal strip bolted to the meeting edge of one of the sections to cover the vertical joint. This type of door and hardware is commonly used where single sliding doors cannot be installed owing to insufficient clear wall space on either side of opening. With this arrangement two fusible links are used both of which are exposed from either side of opening. The arrangement of the fusible link mechanism may be changed to meet different conditions and requirements.

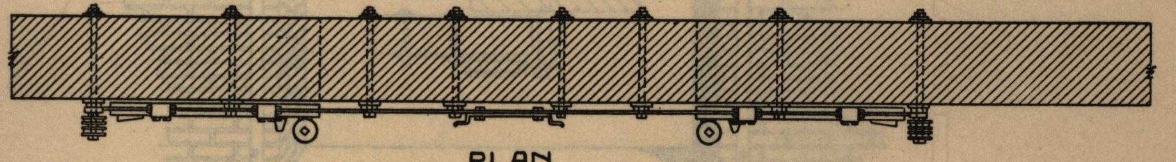
Doors furnished with complete hardware or if desired either doors or hardware sold separately.

Double Sliding Doors and Fixtures

No. 260



ELEVATION.



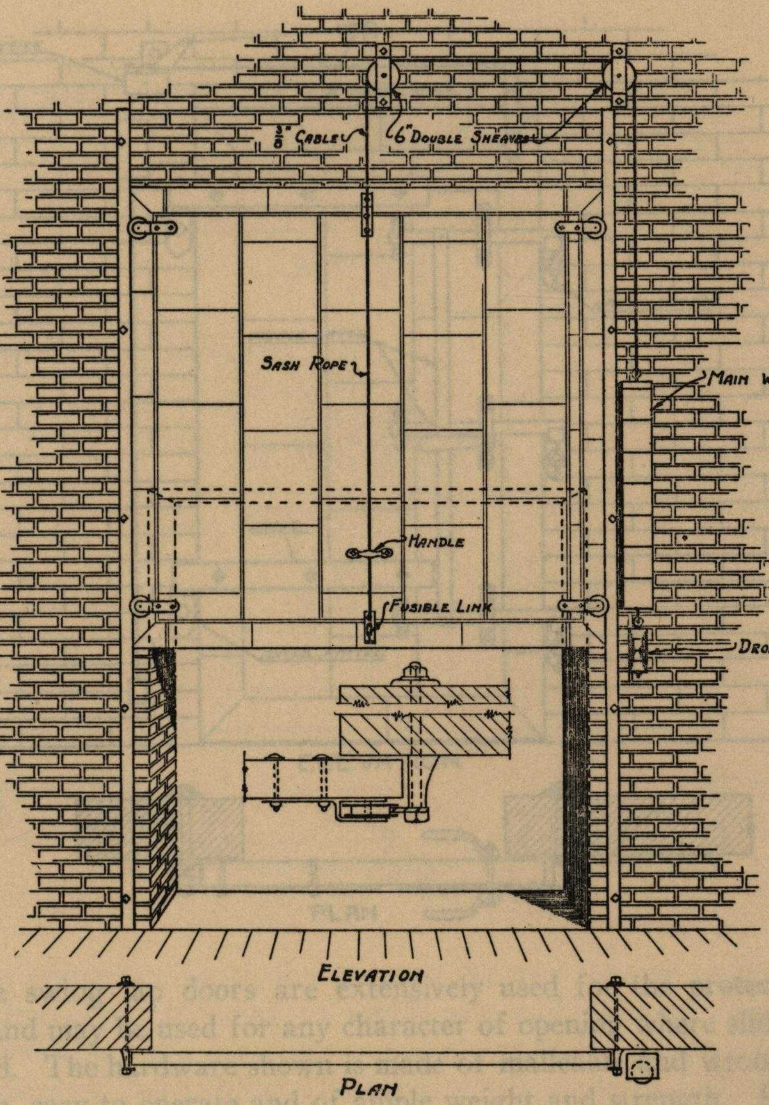
PLAN.

The doors here illustrated are the combination of two No. 256 doors with a double binder and stop attached to track above center of opening also an astragal strip bolted to the meeting edge of one of the door section to cover the vertical joint. This combination is recommended where insufficient clear wall space above and at both sides of opening prevent the installation of a more simple type of door. One or more fuse links exposed from either side of opening are used. The melting of either fusible link will instantly release both weights thus promptly closing both doors. To properly install this equipment there should be a clear wall space above lintel of 13½ inches which permits the door to lap the lintel the usual 4 inches and provides for track and hangers of standard construction.

Doors furnished with hardware complete or if desired doors or hardware sold separately.

Vertical Sliding Door and Fixtures

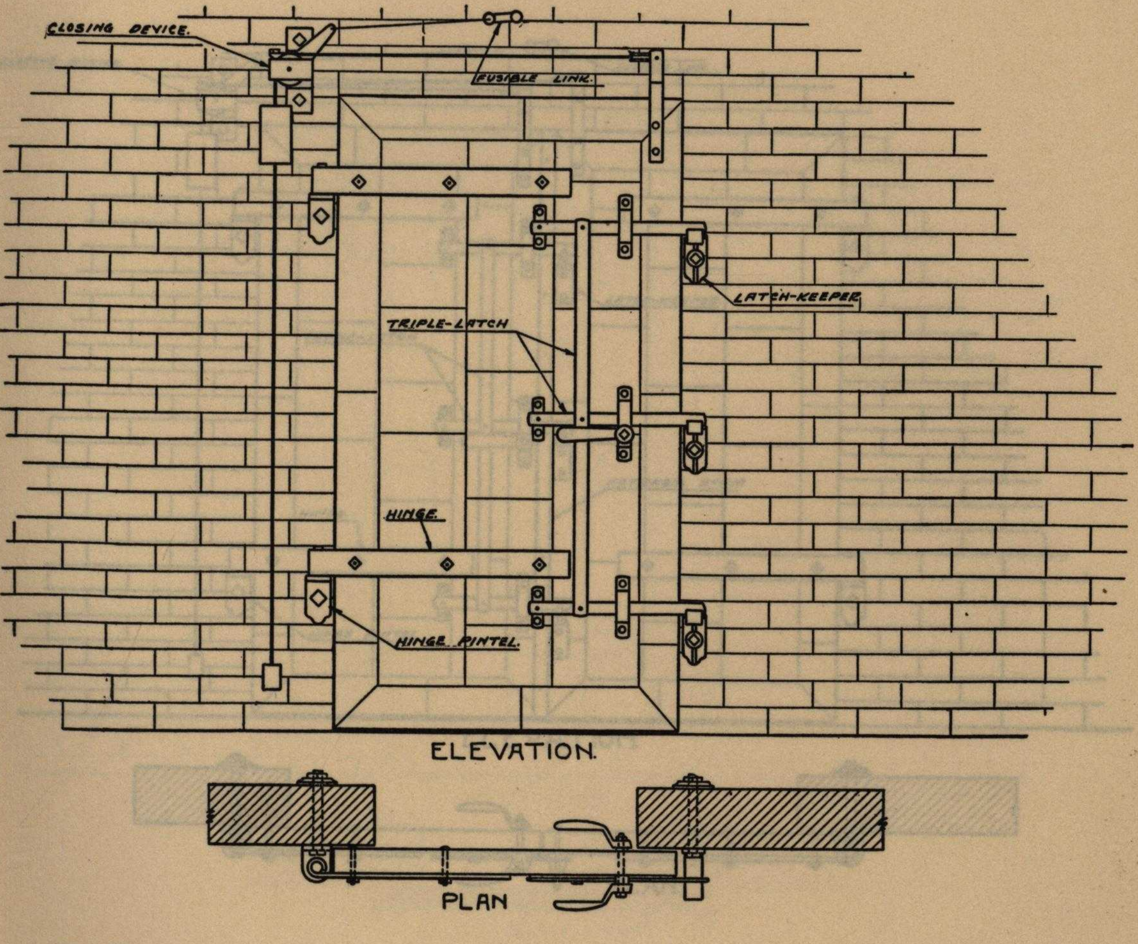
No. 400



Vertical sliding doors are recommended for openings where horizontal sliding or swinging doors cannot be used on account of obstructions on one or both sides of opening. As illustrated, the fusible link is in the circuit which supports the light weight. Heavy counterbalance weights are attached by wire cables to top edge of door and are properly adjusted to allow door to close when the fusible link melts and the small weight is released. For very large door fixtures No. 401 with two counterbalances are commonly used. Doors furnished with hardware complete or if desired doors or hardware sold separately.

Single Swing Door and Fixtures

No. 350

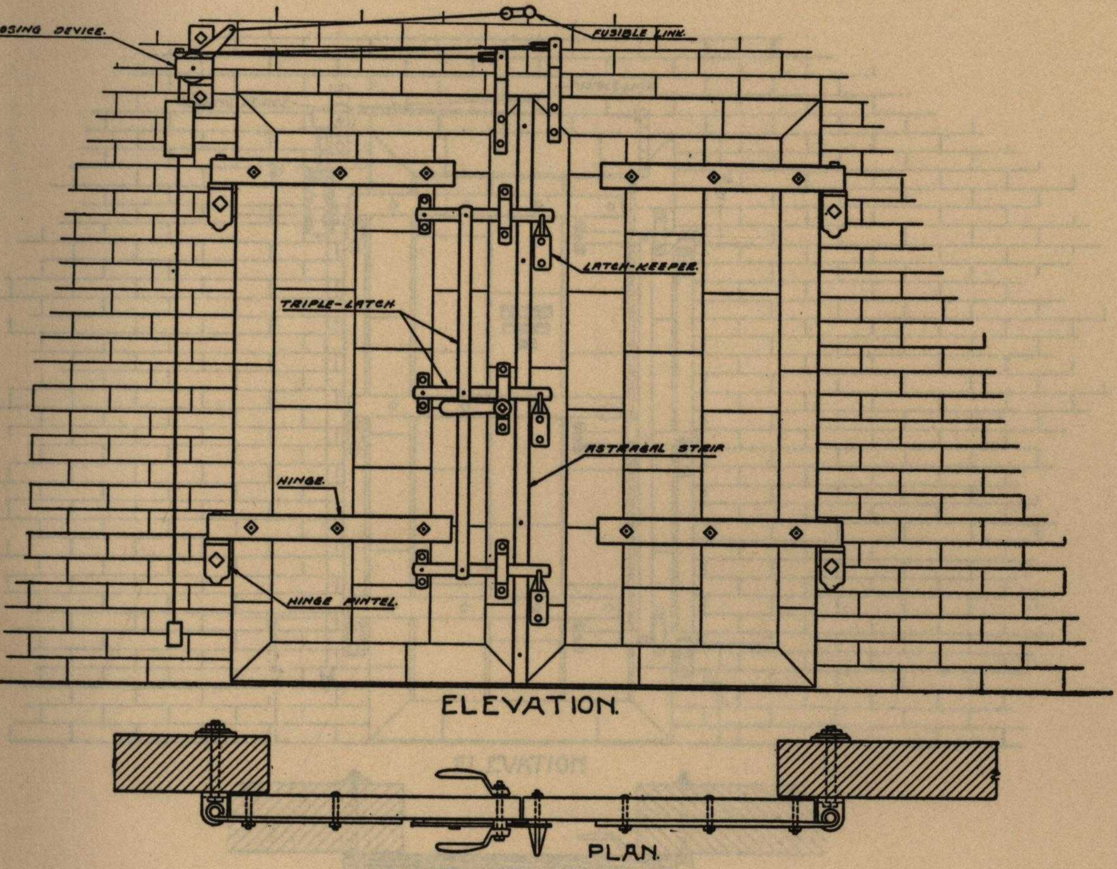


Single swing lap doors are extensively used for the protection of stairway openings and may be used for any character of opening where sliding doors cannot be installed. The hardware shown is made of malleable and wrought iron, neat in appearance, easy to operate and of ample weight and strength. Hinge pintels and latch keepers are designed to be fastened to wall with through bolts. The automatic closing device is quite simple but is positive in operation and thoroughly dependable. Single or double swing doors can be arranged to fold flat against the wall by the use of a special bracket and sheave attached to the wall above the opening. Swinging doors are easy to install and if the floor is kept free from any obstruction will afford excellent protection.

Doors furnished with hardware complete or if desired doors or hardware sold separately.

Double Swing Doors and Fixtures

No. 366

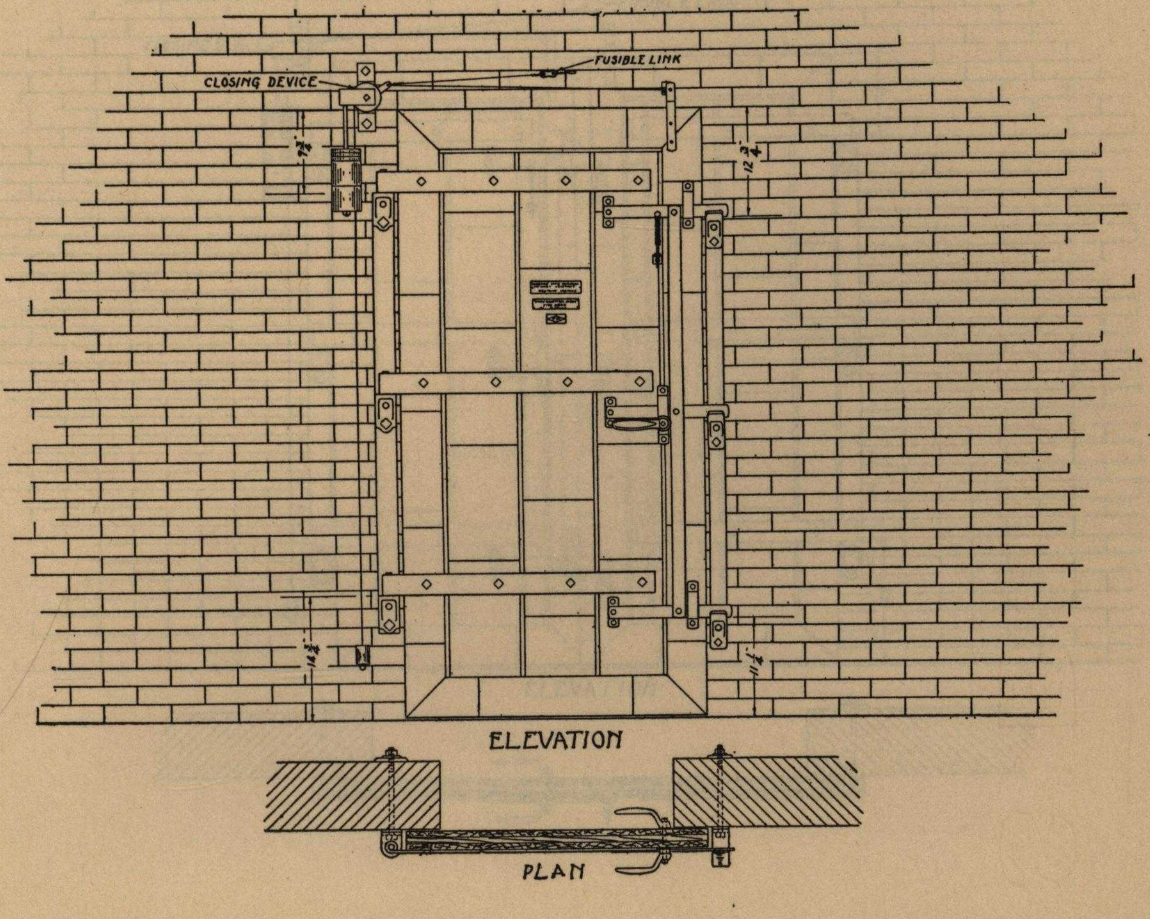


Double swing lap doors may be used for any type of opening where sliding doors are not practical owing to insufficient wall space or obstructions on both sides of opening. They are quite commonly used for the protection of openings in freight elevator hatchways. The hardware is made of malleable and wrought iron and is similar to that furnished with single swing doors with necessary modifications and additions. An astragal strip is supplied to cover the center joint. Hinge pintels and latch keepers are attached to wall with through bolts with large washers on opposite side of wall. To secure best results it is very important to keep the floor free from any obstruction which would prevent the doors from closing.

Doors furnished with complete hardware or if desired doors or hardware sold separately.

Single Swing Door and Fixtures

No. 355

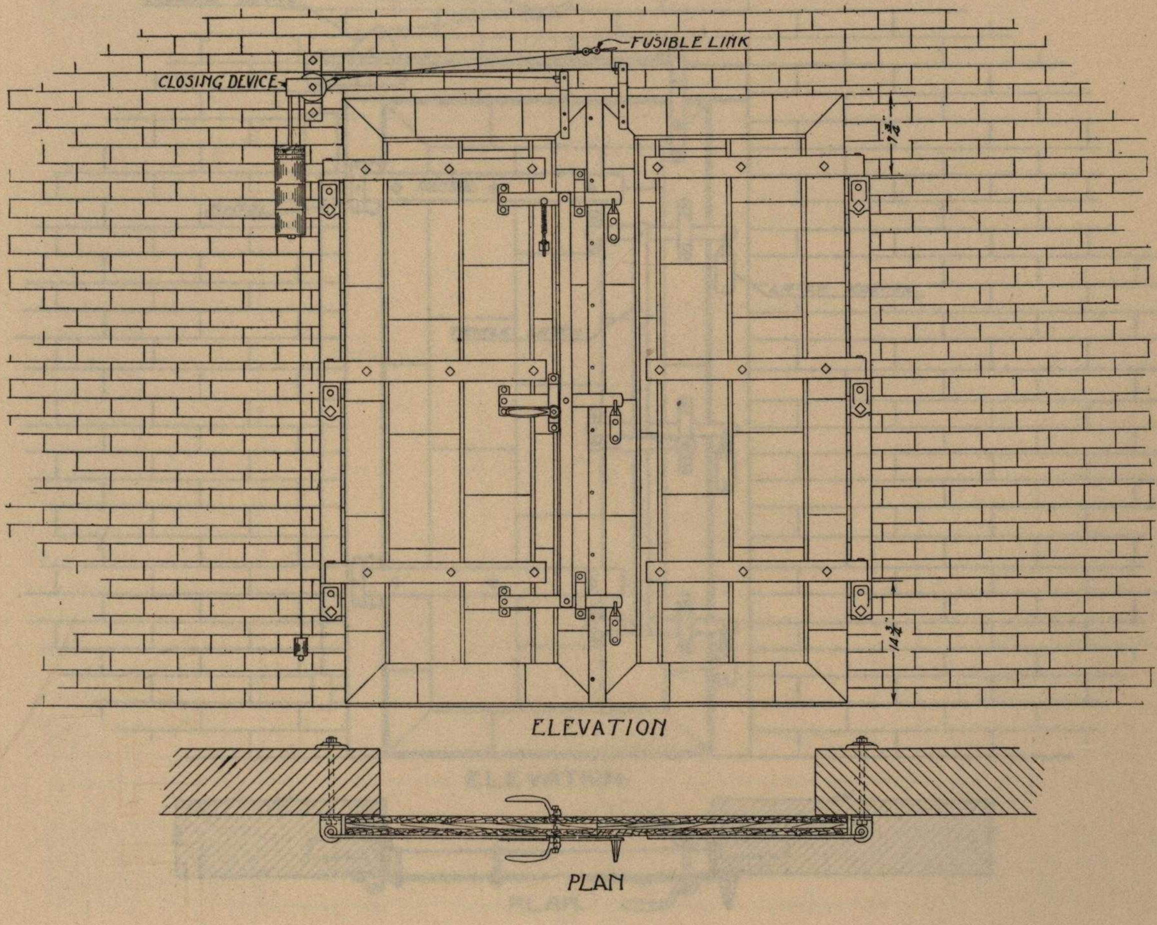


Single swing doors are very commonly used for the protection of stairway openings and may be either flush or lap type. The hardware here shown for lap type doors is of standard construction and is inspected and labeled under the direction of the Underwriters Laboratories Inc. The hinge pintels and latch keepers are wrought steel or malleable iron and are riveted to 1/4″ steel wall plates which in turn are bolted to the wall with through bolts. With flush type doors the hinge pintels and latch keepers are fastened to the face of angle or channel frames.

This equipment is approved by all local and state inspection bureaus. Doors furnished with hardware complete or if desired doors or hardware sold separately.

Double Swing Doors and Fixtures

No. 375

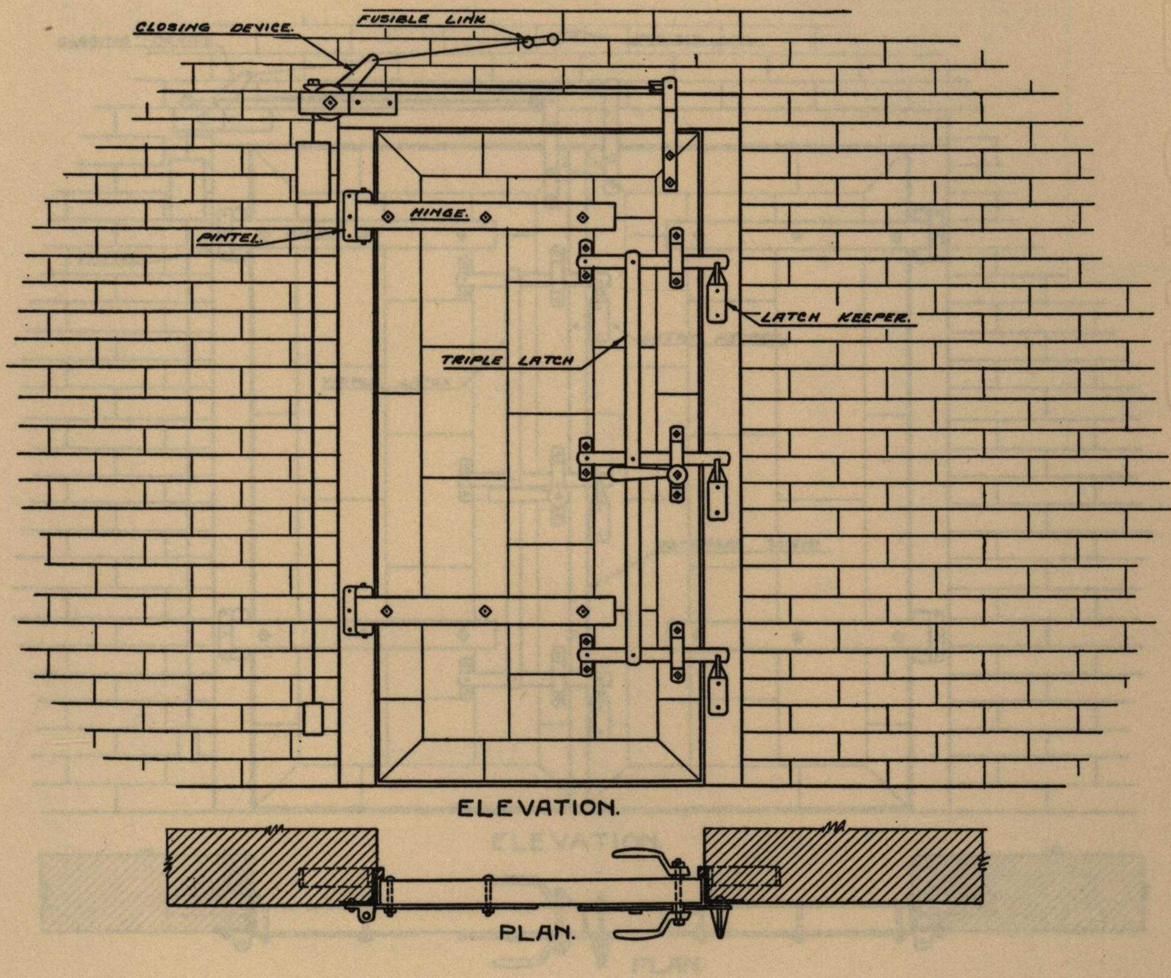


Double swing doors are commonly used for the protection of openings in freight elevator hatchways and may be used at any opening where other types of doors are impracticable. The hardware here shown for lap type doors is of standard construction and is inspected and labeled under the direction of the Underwriters Laboratories Inc. The hinge pintels and latch keepers of wrought steel or malleable iron are riveted to ¼" wall plates which are bolted to the wall with through bolts. With flush type doors the hinge pintels and latch keepers are attached to the face of the angle or channel frame. This equipment is approved by all local and state inspection bureaus.

Doors furnished with hardware complete or if desired doors or hardware sold separately.

Single Swing Flush Door and Fixtures

No. 358

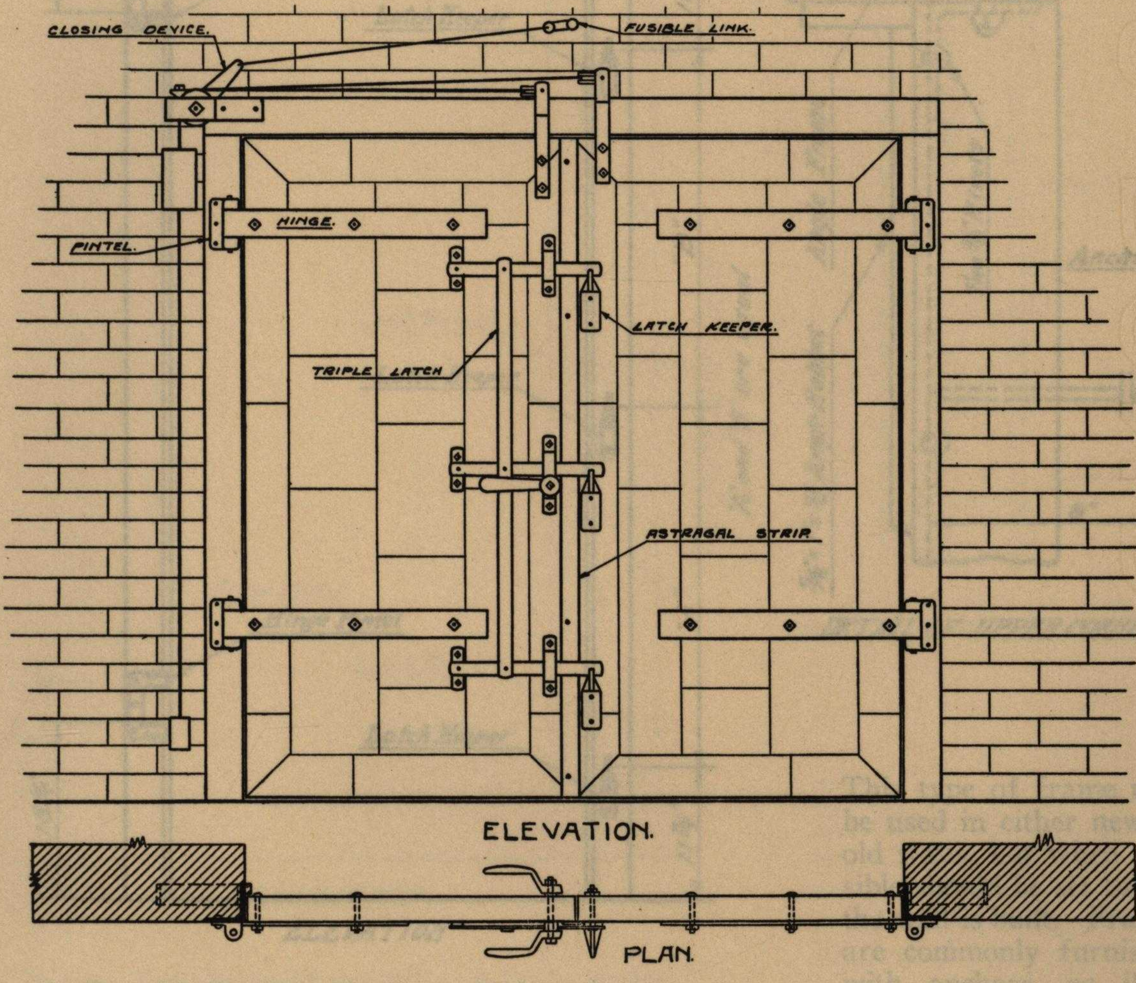


Single swing doors may be either lap type or flush type. The illustration above shows a flush type door closing into a standard angle frame. The hardware arrangement will be exactly the same if channel frames are used. The hinge pintels and latch keepers are attached to the face of angle or channel frames. The best and most economical arrangement is to purchase the frame complete with hinge pintels and latch keepers attached before the frames are shipped. If the frames are set while the walls are being constructed the cost of erection can be reduced to a minimum. Inspection Bureaus approve either flush type or lap type doors if of labelled construction with standard hardware and properly installed.

Door furnished with frames and hardware complete or if desired doors or hardware sold separately.

Double Swing Flush Doors and Fixtures

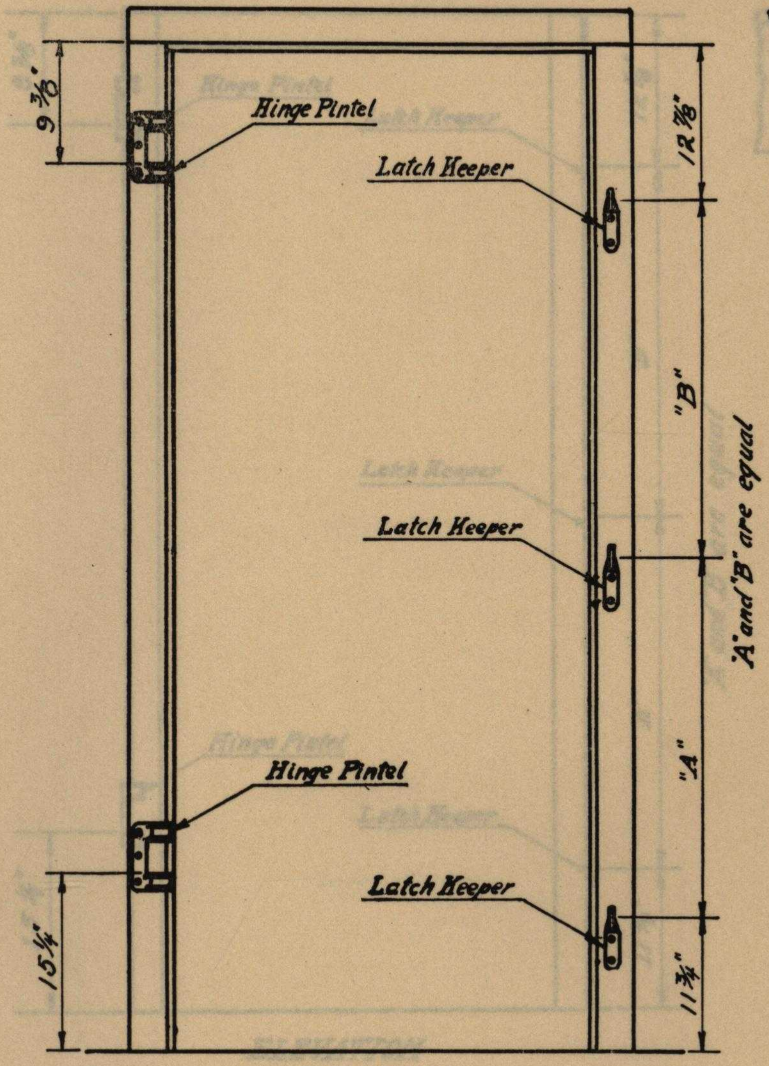
No. 370



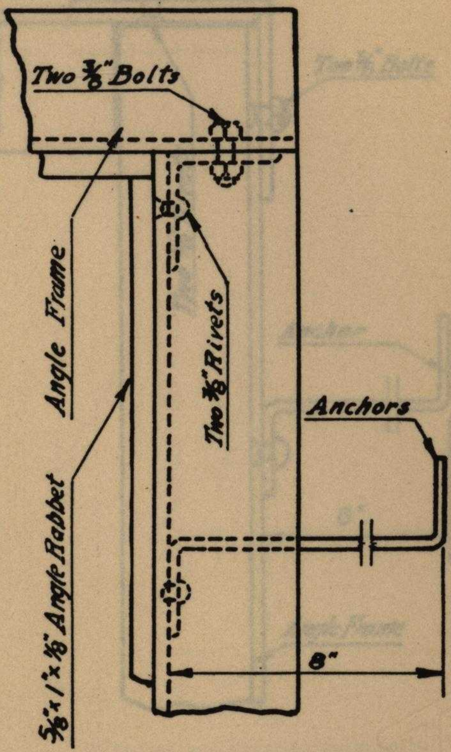
One advantage resulting from the use of single or double swing flush doors is that the angle or channel frame effectively protects the corners of the jambs. Inspection Bureaus approve either flush type or lap type doors if of labelled construction with standard hardware and properly installed. The hardware shown is of malleable and wrought iron, neat in appearance, and of ample weight and strength to support the largest door which can be successfully operated. If possible hinge pintels and latch keepers should be attached to frames before the frames are set. This will simplify and cheapen the cost of erection.

Doors furnished with frames and hardware complete or if desired doors or hardware sold separately.

ANGLE IRON FRAME NO. 1

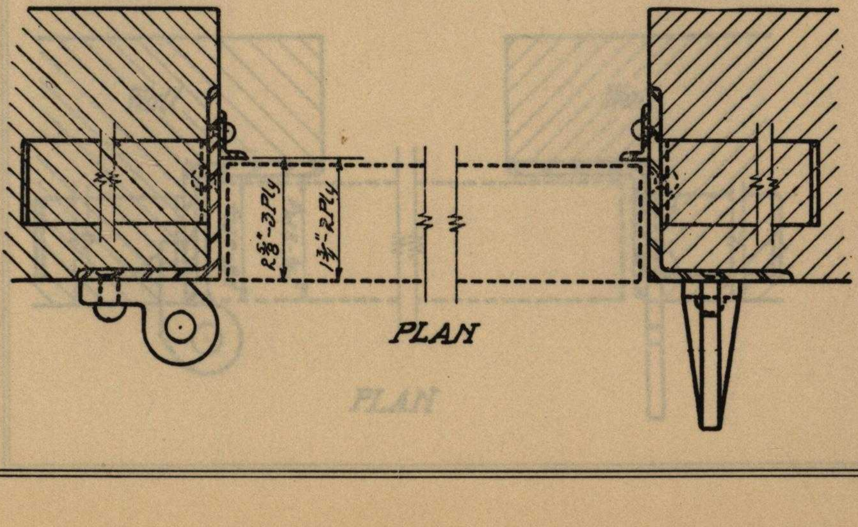


ELEVATION



DETAIL OF UPPER CORNER

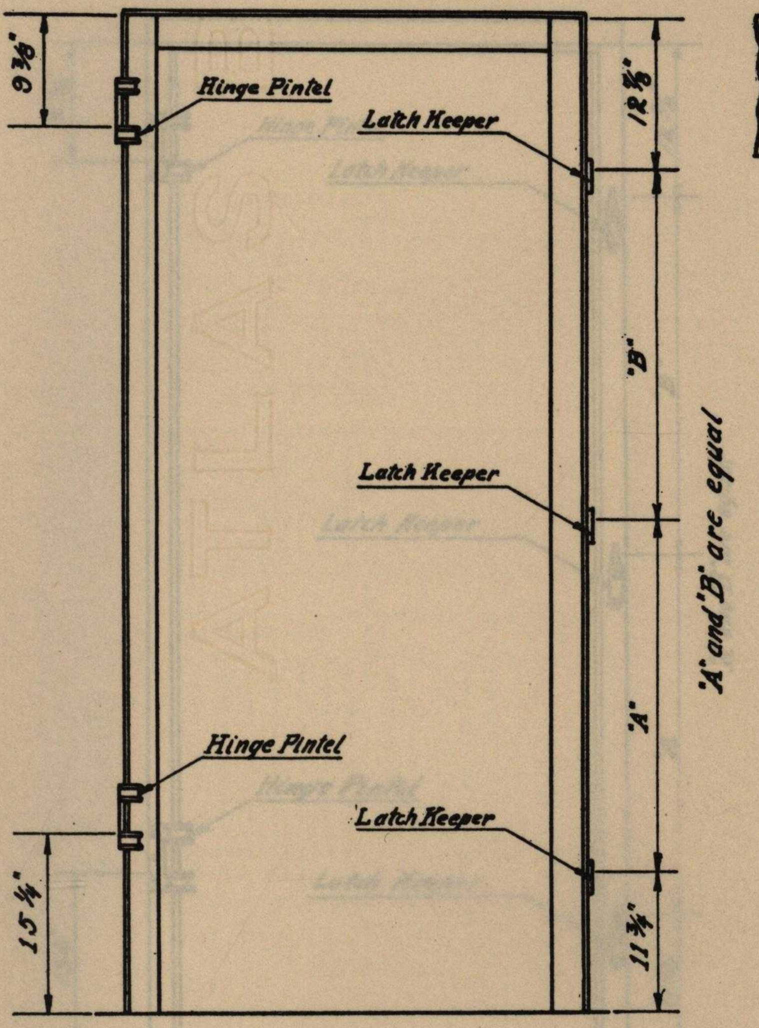
Frames with opening heights over 7'-0" have 3 hinge pintels



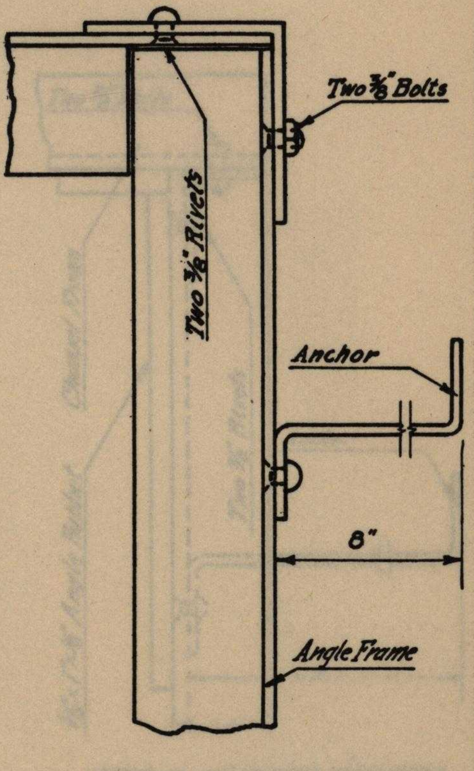
PLAN

This type of frame may be used in either new or old walls, but when possible should be set before the wall is built. Frames are commonly furnished with anchors, as illustrated, but may be bolted to wall if desired. The bottom end of frame may extend one inch or more below floor unless metal sills are used. Frames are constructed according to the standards of the National Board of Fire Underwriters.

ANGLE IRON FRAME NO. 2

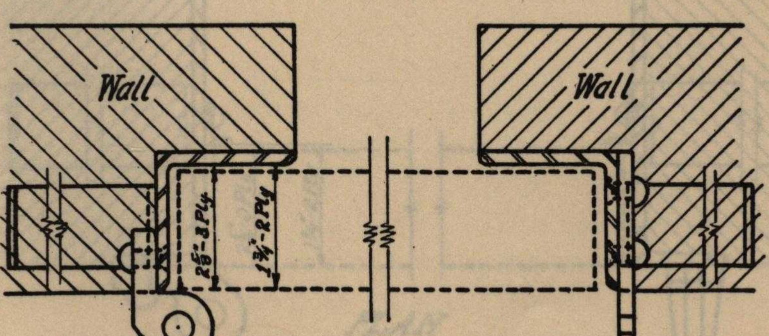


ELEVATION



DETAIL OF UPPER CORNER

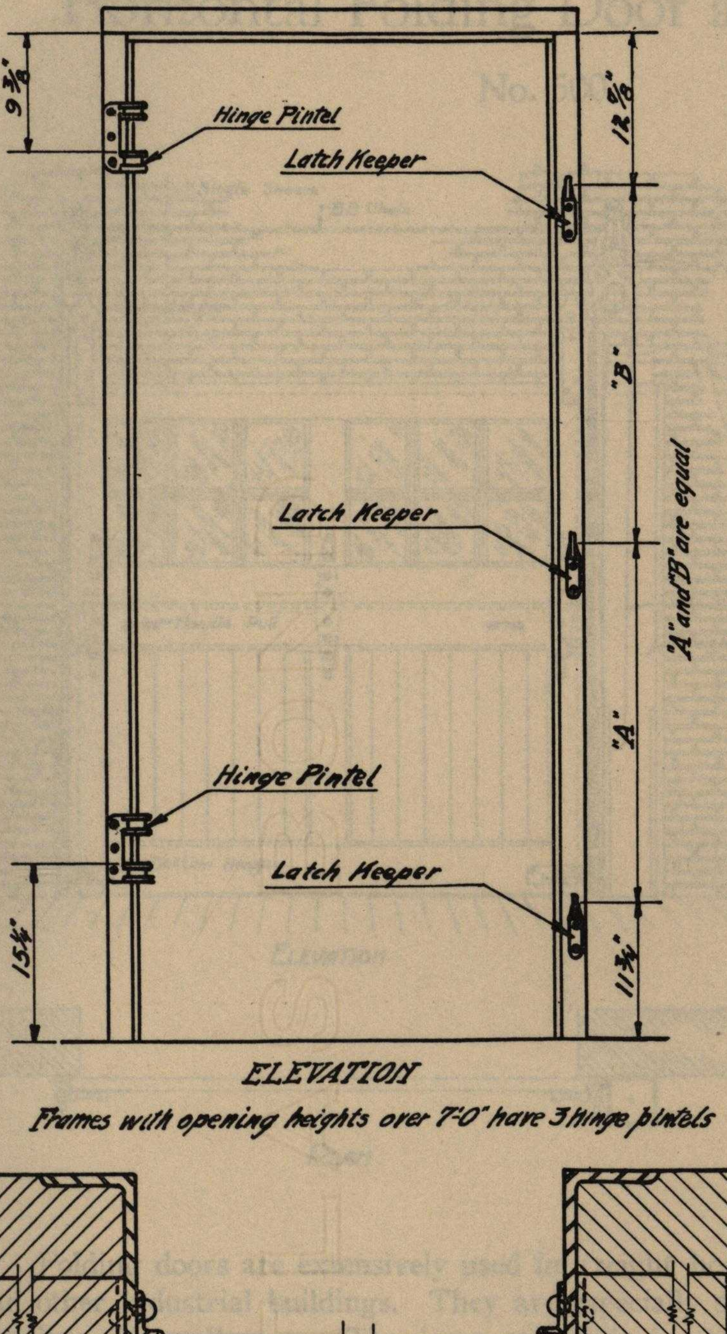
Frames with opening heights over 7'-0" have 3 hinge pintels.



PLAN

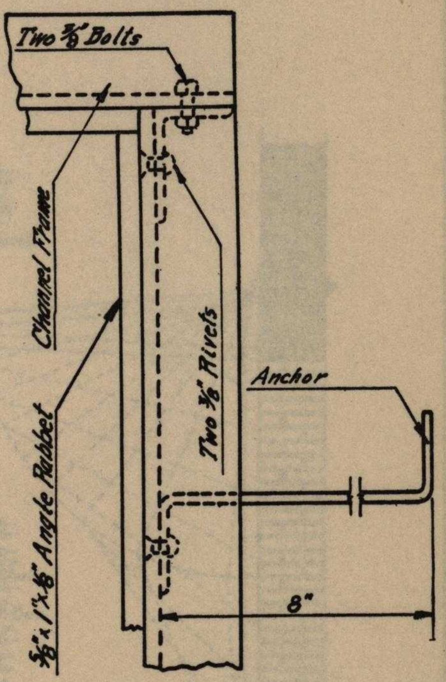
This type of frame should be placed in position before the wall is erected. Frames are furnished with anchors as illustrated or may be bolted to wall if preferred. The bottom end may extend one inch or more below floor unless metal sills are used. Frames are constructed according to the standards of the National Board of Fire Underwriters.

CHANNEL IRON FRAME.



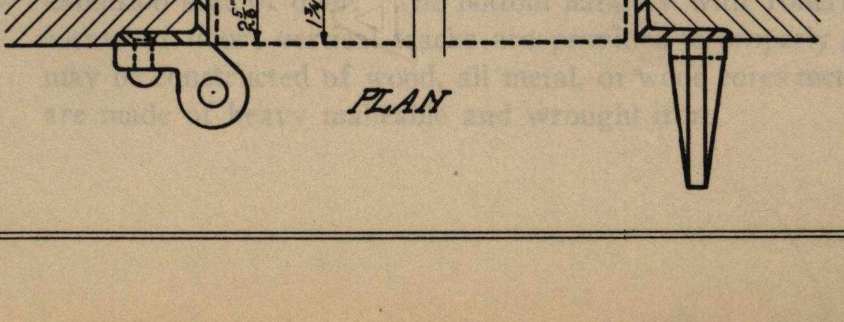
ELEVATION

Frames with opening heights over 7'-0" have 3 hinge pintels



DETAIL OF UPPER CORNER

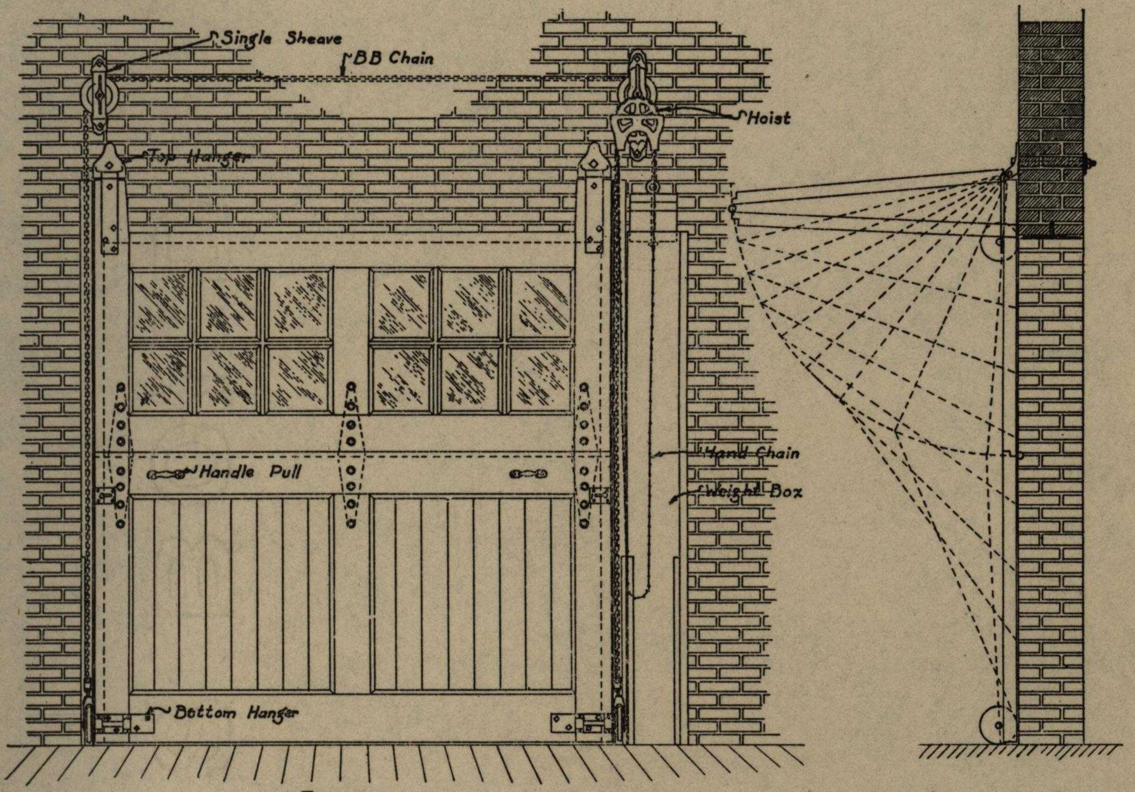
Channel frames are especially suitable for use with tile or block walls, and very often the jambs extend from floor to ceiling. The width of the channel is usually 1" greater than wall thickness. The bottom end of frame may extend below floor unless metal sills are used. Frames are commonly furnished with anchors as shown. Frames constructed according to the standards of The National Board of Fire Underwriters.



PLAN

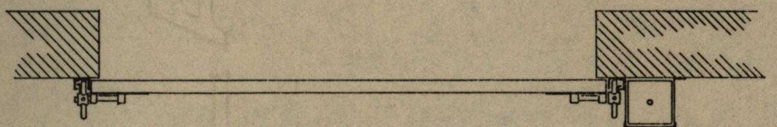
Horizontal Folding Door and Fixtures

No. 500



ELEVATION

VERTICAL SECTION



PLAN

Folding doors are extensively used in freight houses, warehouses, factories, and other industrial buildings. They are especially suitable for openings having but little side wall space. The doors are made in two sections, hinged together and are supported at top by hangers, one leaf bolted to the wall, the other leaf to extension stile of door. The bottom hangers with rollers are attached to lower corner of door; vertical tracks are provided to properly guide the rollers. Doors may be constructed of wood, all metal, or wood cores metal covered. The fixtures are made of heavy malleable and wrought iron.